

# Impacted Material Excavation and Removal Work Plan - Addendum

## NYSDEC Site No. 3-36-009

### Location:

DuPont Stauffer Landfill Site NYSDEC Site No. 3-36-009  
700 South Street  
City of Newburgh, Orange County, New York 12144

### Prepared for:

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LaBella Project No. 2222335

February 8, 2024

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Figure 1 Overall Site Plan

Figure 1b TP-1 Soil Delineation –Site Features & Soil Boring Locations

Figure 1c TP-1 Soil Delineation – Endpoint Soil NYSDEC Commercial SCO Exceedances

Figure 2a – Site Plan Showing Fill Area Types (Sources: Site Management Plan, *DuPont-Stauffer Landfill Site* by O'Brien & Gere November 2016; Revised April 4, 2017)

Figure 2b – Record Remedial Excavation Limits Overlain on Redevelopment Plan (Source: NMB Land Surveying *Topographic Survey DuPont-Stauffer Landfill Post Construction* from O'Brien & Gere's Final Engineering Report January 2017)

Figures 3 and 4 of 2008 Non-Fill Areas from O'Brien & Gere 2013 Final Remedial Design Report - Waste Removal and Cap

Figure 5 Proposed Excavation vs Existing Grade (Cut)

## TABLES:

Table 1- Delineation Soil Sample Laboratory Analytical Results Summary

Table 2-Waste Characterization Laboratory Analytical Results Summary

## ATTACHMENTS:

Excavation Work Plan (EWP) (Appendix C of SMP)

LaBella's Health and Safety Plan (HASP)

Soil Boring Logs (November 29, 2023)

Laboratory Analytical Reports

### CERTIFICATION

I, Daniel Noll, PE, certify that I am currently a NYS registered professional engineer and that this *Impacted Material Excavation and Removal Work Plan* (Work Plan) was prepared in accordance with applicable statutes and regulations and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDECs) Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).



Handwritten signature of Daniel P. Noll in blue ink.

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Dan Noll, PE  
LaBella Associates, D.P.C

2/8/2024

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Date



## 1.0 INTRODUCTION

This Impacted Material Excavation and Removal Work Plan Addendum presents the proposed scope of work and implementation procedures for the excavation and off-site disposal of impacted soil and debris (“impacted material”) from New York State Department of Environmental Conservation (NYSDEC) Site Number 3-36-009 – DuPont Stauffer Landfill Site, located at 700 South Street, City of Newburgh, Orange County, New York, hereinafter referred to as the “Site”. The excavation and removal of impacted material will be conducted as agreed upon in conjunction with the New York State Department of Environmental Conservation (NYSDEC).

IV5 Newburgh South Logistics Center LLC (IV5), Owner, plans to develop the Site for commercial use. To support redevelopment planning and design (Overall Site Plan provided as **Figure 1**), this Work Plan Addendum is being submitted in accordance with the NYSDEC - approved Site Management Plan (SMP) dated November 2016, revised June 2017. An electronic copy of the existing SMP with its Excavation Work Plan (EWP) is attached.

The original Work Plan submitted to the NYSDEC by LaBella Associates, D.P.C. (“LaBella”) on November 16, 2023, presented a Site investigation scope to address the delineation, characterization, and removal of a small area of impacted material identified at the Site during an August 2023 geotechnical investigation by Whitestone Associates, PLLC (Whitestone) of Warren, New Jersey, in the vicinity of test pit location “TP-1” (See **Figure 1b**),

This Work Plan Addendum presents observations and findings of the November 29, 2023, investigation by LaBella and summarizes the approach for removal and off-site disposal of hazardous impacted material and non-hazardous impacted material with contaminants of concern exceeding their respective NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (CUSCOs).

### 1.1 Background

The remedial program for the Site was conducted under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program administered by the NYSDEC. A Site remedial investigation (RI) performed between September 2001 and February 2004 by DuPont Corporate Remediation Corp. of Wilmington, Delaware, determined that there were areas of waste material and/ or fill comprised of seven (7) waste fill types as depicted on the attached **Figure 2a**. The identified areas of waste/fill and material removal do not specifically include the area of the 2023 geotechnical test pit TP-1. However, three (3) waste/ fill areas were documented in the vicinity of TP-1 including the following:

- “Type A” waste fill, located approximately 75 feet north of TP-1, consisting largely of gray-colored fine ash/cinder/soil material mixed with other inert debris (glass, wood, brick, etc.). This area was subsequently used to consolidate excavated non-hazardous waste and is a capped landfill that is outside the limits of proposed redevelopment.
- “Type C” waste fill, located approximately 200 feet south of TP-1, consisting of construction and demolition (C&D) debris, PVC, and fabric exposed at the ground surface.
- “Type D” waste fill, located 200 feet south of TP-1, isolated pockets of buried fill, consisting of colored paste/putty-like material intermittently mixed with fabrics and other debris.

Laboratory analytical results from the RI, conducted between 2001 and 2004, indicated soil concentrations of metals and semi-volatile organic compounds (SVOCs) mainly in the shallow soils that

were greater than NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (CUSCOs) for the waste fill types. Several volatile organic compounds (VOCs), SVOCs, metals, and polychlorinated biphenyls (PCBs) were also detected at concentrations exceeding CUSCOs for the “Type D” waste fill in both surface and subsurface soils.

E.I. DuPont deNemours and Company (DuPont), Bayer CropScience, Inc., successor-by-merger to Stauffer Chemical Company (BCSI), and Stauffer Management Company, LLC (SMC) entered into Order on Consent Index #W3-0988-02-04 on August 9, 2005, with the NYSDEC to remediate the Site. Obligation under the Order was separately transferred by DuPont to The Chemours Company FC LLC (Chemours), a wholly owned subsidiary of DuPont, by means of a separate agreement between DuPont and Chemours.

Following a Site remedial action, completed in 2016, the NYSDEC reclassified the site from Class 2 (significant threat to public health or environment - action required) to Class 4 (site properly closed – requires continued management). The final remedy for this site included:

- Excavation and off-site treatment/disposal of waste from the North and South Landfill areas where heavy metals and volatile organic compounds (VOCs) exceeded characteristic hazardous waste regulatory levels. This material was disposed at a permitted off-site hazardous waste disposal facility.
- Excavation of remaining non-hazardous waste from the South Landfill and portions of the North Landfill. The waste from these areas was consolidated to the northern portion of the North Landfill area.
- Capping of the North Landfill consolidation area with an engineered cap designed to meet the requirements of 6 NYCRR Part 360 solid waste regulations for landfills and caps.
- Covering of all excavated areas where surface soils exceed applicable standards with one foot of soil.
- Placement of an environmental easement on the property to address contamination above unrestricted levels remaining at the Site.
- Development and implementation of the SMP.

After review and approval of the Final Engineering Report (FER) dated November 2016, and implementation of the SMP, the NYSDEC issued a Certificate of Completion in November 2017 to the remedial party, which allowed for redevelopment of the Site.

## 1.2 Purpose

The purpose of this work plan is to notify the NYSDEC of intrusive activities that are planned which will encounter remaining contamination on-Site during excavation and redevelopment activities. This work plan has been prepared in accordance with the Department’s approved SMP (November 2016) and NYSDEC DER-10 (May 2010). All intrusive activities will comply with the existing SMP, which includes the EWP; and in accordance with 29 CFR 1910.120.

## 1.3 Project Schedule

A tentative project schedule is presented below:

**February to March 2024** – Excavation of hazardous and non-hazardous soil identified during LaBella’s November 29, 2023, investigation to delineate and characterize contaminated soils.

**March to April 2024** – Restoration of excavation area.

**April to May 2024** – Preparation of documentation summarizing excavation activities, waste disposal, and restoration work completed.

## 2.0 SITE AND TP-1 WORK AREA DESCRIPTION

### 2.1 General

The Site is located on South Street and Old Pierces Road in the City of Newburgh, Orange County. The site is about 1/4 mile east of the intersection of State Rte. 52 and I-84 (Exit 8 on I-84).

The former industrial area is bordered on the east by the former Newburgh City Landfill, Gidneytown Creek to the west, Interstate I-84 to the north, and South Street to the south. The site is relatively flat, wooded, vacant and fenced. The total area of the site is 49.05 acres of which the area of waste disposal was dispersed in discrete areas. Site surface water drains south and west to Gidneytown Creek which borders the site on the west.

Historically and prior to Site's RI and RA, DuPont purchased the manufacturing facility from the Fabrikoid Company of Newburgh in 1911. The main manufacturing areas were located south of the site on South Street with waste management and disposal occurring on the site. DuPont used nitrocellulose to coat fabrics from the late 1950s to the early 1960s when vinyl replaced nitrocellulose as the coating agent. Coated fabric was primarily used in manufacturing of automobile car seats and interiors. Stauffer Chemical purchased the site from DuPont in 1967. Stauffer continued production of coated fabrics and also produced PVC sheeting until January 1979, when operations at the plant were shut down.

### 2.2 Test Pit Location (TP-1)

On August 29, 2023, during the geotechnical investigation by Whitestone, test pit location TP-1 was installed and observed to contain impacted solid waste debris and soil from approximately 1 to 3-feet below ground surface (bgs) (see **Figure 1b and 1c**). The material exhibited a photoionization detector (PID) reading of 70 parts per million (ppm) and appeared to contain partially melted or degraded vinyl/foam, wood, glass, twisted metal. Soil deeper than 3-feet bgs did not exhibit evidence of debris, and PID readings decreased to 10 ppm. This test pit location is outside the identified limits of the prior remedial removal work (see areas on attached **Figures 2a and 2b, 3, and 4**).

As IV5 is preparing for Site redevelopment, the original work plan, dated November 16, 2023, was prepared by Labella and presented to NYSDEC to support the delineation, removal, and off-Site disposal of impacted soil and debris, backfilling excavations with clean fill, and to assess soil in a nearby location where excavation is planned for a utility trench and driveway around the proposed building. The intent is to address known soil impacts prior to the start of construction that require excavation (see areas shown on attached **Figure 5**).

### 2.3 Summary of TP-1 Delineation Sampling (November 29, 2023)

On November 29, 2023, a focused soil sampling investigation was conducted by LaBella in the vicinity of the 2023 geotechnical test pit location TP-1 to delineate the vertical and horizontal extents of impacted material in the subsurface exceeding CUSCOs and characterize waste soils for proper classification as either non - Resource Conservation and Recovery Act (RCRA) hazardous waste or RCRA hazardous waste. Field activities were completed consistent with LaBella's November 16, 2023, WP Sections D1 through D4. To achieve the delineation and waste characterization objectives (Section B), the following Scope of Work was performed:

- Prior to the initiation of subsurface field work, a *UDig New York* stakeout was requested to locate subsurface utilities where they enter the Site.
- Consistent with the existing SMP, a LaBella environmental professional conducted CAMP monitoring in accordance with Appendix 1A of DER-10, Generic Community Air Monitoring Plan, during intrusive Site activities (i.e., soil borings) on November 29, 2023. No exceedances of the established action limits for VOCs or particulates were recorded during this CAMP monitoring period.
- A direct push soil boring and sampling program of the overburden at the Site was implemented. Soil borings were advanced by LaBella with a track-mounted Geoprobe® Systems Model 6610DT direct-push sampling system on November 29, 2023. The use of direct-push technology allowed for rapid sampling, observation, and characterization of overburden soils. The 6610DT Geoprobe utilizes a 5-foot MacroCore® sampler with disposable polyethylene sleeves. Soil cores are retrieved in 5-foot sections and can be easily cut from the polyethylene sleeves for observation and sampling. The MacroCore® sampler was decontaminated between boring locations using an Alconox® and potable water solution.
- A total of eight (8) soil borings, identified as B-01 through B-08, were advanced at the Site in the vicinity of test pit location TP-1 to delineate the vertical and horizontal extents of impacted material in the subsurface. These eight (8) borings were advanced to bedrock refusal ranging from 6 to 9.5-feet bgs. **Figure 1b** and **Figure 1c** depict locations of the delineation borings in vicinity of TP-1. Soil borings logs are attached.
- In addition to the delineation soil borings (B-01 through B-08), four (4) soil borings, identified as B-09 through B-12, were advanced where a utility trench is planned during Site redevelopment. These four (4) borings are included on **Figure 1b** and **Figure 1c** and were advanced to bedrock refusal ranging from 4 to 12.5 feet bgs. Soil borings logs are attached.
- Soils from each soil boring were continuously assessed, classified and screened for visual and olfactory evidence of potential petroleum or other impacts. Additionally, each soil boring was screened with a PID equipped with a 10.6 eV lamp to scan for the presence of VOCs. Groundwater was not encountered during this investigation.
- Five (5) delineation soil samples representing the potential limits of observed impacted material (four sidewalls and one bottom sample) were collected from borings B-01 to B-05 and placed into laboratory provided sample containers and sent under standard chain of custody procedures to York Analytical Laboratory (York), in Stratford, Connecticut, for analysis of compounds listed in **Table 1** and section *D5.5* below.
- One (1) composite soil sample “IV5\_WC-01” representative of the impacted solid waste debris and soil material in vicinity of TP-1 to be excavated for off-Site disposal was collected and submitted for waste characterization analyses including a Toxicity Characteristic Leaching Procedure (TCLP) as listed in **Table 2**.

Soil from delineation borings and investigative derived waste (IDW) were staged on-Site in a 55-gallon drum for subsequent transport and disposal to an appropriately licensed Transport, Storage, Disposal

Facility (TSDF), pending waste profile acceptance, as a D-listed hazardous waste Site as discussed in the following section.

### 2.3.1 Summary of TP-1 Delineation Observations and Analytical Results

Soils at the Site in vicinity of TP-1 consisted generally of silty sands with gravel and cobbles underlain by bedrock ranging from approximately 6 to 9.5-feet bgs. Groundwater was not encountered during the delineation investigation. Soil boring logs are attached.

Visual and olfactory evidence of impairment including hydrocarbon odors, stained soil, and/or debris (i.e., plastics, wood, foam) were observed in soil boring B-02 from approximately 2 to 8 feet bgs, where bedrock refusal was encountered. PID readings greater than one (1) ppm were observed at B-02 from 2-feet bgs to bedrock refusal and ranged from approximately 27 to 178 ppm, which were consistent with observations during the August 2023 geotechnical investigation.

No evidence of debris including visual or olfactory evidence of impairment were observed in soil borings B-01 and B-03 through B-08, and PID readings at these locations were less than five (5) ppm from grade to terminal depths at bedrock refusal. The following end-point delineation soil samples were collected from the investigation area:

- B-01, eastern sidewall, collected from 4 to 6-feet. bgs, "B-01(4-6ft)"
- B-02, bottom, collected from 6 to 8-feet bgs, "B-02(6-8ft)"
- B-03, western sidewall, collected from 5 to 7-feet bgs, "B-03(5-7ft)"
- B-04, southern sidewall, collected from 5 to 7-feet bgs, "B-04(5-7ft)"
- B-05, northern sidewall, collected from 5 to 7-feet bgs, "B-05(5-7)"

Delineation soil sample laboratory analytical data were reviewed, tabulated, and compared to applicable 6 NYCRR Part 375-6.8 CUSCOs for this Site, as well as Unrestricted Use SCOs (UUSCOs). Analytical results for the delineation soil samples are summarized in **Table 1** and included in the attached laboratory analytical report.

Delineation end-point soil sample results indicate that concentrations of VOCs, SVOCs, PCBs, pesticides, and PFAS were generally non-detect (i.e., less than laboratory method detection limits (MDLs)) or were less than their respective CUSCOs. A limited concentration of VOCs was reported only in the delineation sample collected from B-02. However, the reported VOCs did not exceed their respective CUSCOs. Metals constituents with concentrations greater than their respective CUSCOs are discussed below and indicated on **Figure 1c**:

- Cadmium concentrations were reported greater than its respective CUSCO of 9.3 milligrams per kilogram (mg/kg) in four (4) of the five (5) delineation samples. These cadmium concentrations ranged from 9.5 mg/kg in boring B-04 to 18.3 mg/kg in boring B-02.
- Barium concentrations exceeding its CUSCO of 400 mg/kg were observed in two (2) delineation soil samples, B-01(4-6ft) and B-04(5-7ft), at concentrations of 829 mg/kg and 431 mg/kg, respectively.
- The five delineation sample concentrations were notably less than the impacted material concentrations observed in the composite waste characterization sample, IV5-WC-01 (see discussion below).

One (1) composite waste characterization soil sample, IV5-WC-01, was collected from the observed impacted waste debris and soil in vicinity of B-02 and TP-1 and submitted to York Analytical. Laboratory reporting included totals analyses of VOCs, SVOCs, metals, PCBs, pesticides/herbicides, and PFAS, and TCLP analysis of VOCs, SVOCs, metals, pesticides, and herbicides. The waste characterization soil sample results are summarized in **Table 2**, included in the attached laboratory summary report, and discussed below:

- The TCLP VOC analysis for tetrachloroethylene (PCE) exceeded the United States Environmental Protection (EPA) hazardous regulatory limit of 0.7 milligrams per liter (mg/L) at a concentration of 0.92 mg/L.
- The TCLP VOC analysis for trichloroethylene (TCE) exceeded the EPA hazardous regulatory limit of 0.5 mg/L at a concentration of 3.9 mg/L.
- Several other constituents analyzed for were detected above the laboratory reporting limit but did not exceed the EPA regulatory limits. However, due to the exceedance of PCE and TCE, the soil within the TP-1 delineation area meets the toxicity characteristic of hazardous waste regulated under Subtitle C of RCRA that make it dangerous or capable of having a harmful effect on human health or the environment. Exceedances of PCE and TCE are designated as EPA hazardous waste numbers D-039 and D-040, respectively, which corresponds to the toxic contaminant causing it to be hazardous.

The soil within the TP-1 delineation area, including the 55-gallon drum of waste generated during the boring investigation, will be treated as a D-listed hazardous material. As such, any excavated material from within the TP-1 delineation area will be transported and disposed offsite, in accordance with all local, state, and federal laws, pending waste profile acceptance. The approved destination facility for the hazardous waste will be provided prior to transport.

### 2.3.2 TP-1 Delineation Conclusions and Remaining Contamination

Field observations from the TP-1 delineation sampling identified a limited area of the Site (see **Figure 1c**) containing both non-hazardous metals concentrations greater than NYSDEC CUSCOs and hazardous VOC impacted waste debris and soil. Hazardous concentrations of VOCs, primarily tetrachloroethene and trichloroethene, were specifically identified in the composite waste characterization sample collected in vicinity of soil boring B-02 and test pit TP-1. Laboratory analytical results from the delineation end-point soil sampling indicate that the hazardous VOC impacts are limited to a small area within limits established by soil samples collected from B-01 and B-03 through B-05, indicated on **Figure 1c**.

The delineation end-point sampling laboratory analytical results indicate that the extent of impacts greater than CUSCOs on the northern side of the debris area (B-05) were identified. However, analytical results indicate that specific non-hazardous metal concentrations for cadmium, barium, and mercury exceed CUSCOs at soils analyzed from B-01, B-03, and B-04. Following the soil delineation investigation, impacted soil with exceedances of CUSCOs and classified as hazardous measures approximately 144-square feet in area and extends to a bedrock depth of approximately 8-feet bgs, for a total of approximately 45 cubic yards or 75 tons of material.

Based on the sampling results, further delineation will be required to identify and remove additional soil, located outside the limited area of hazardous VOC impacted soil, presumed to be non-hazardous

but exceed CUSCOs based on end-point soil sample results from the November 2023 investigation. Additional field screening and confirmatory end-point sampling will be conducted as part of a remedial excavation to remove the identified impacted material. The final horizontal extent will be determined during excavation activities by field screening with a PID for VOCs and a portable X-Ray Fluorescence (XRF) analyzer to assess concentrations of select metals in soil. Additional excavation and removal activities proposed at the Site are detailed in the following sections.



### 3.0 SOIL EXCAVATION AND REMOVAL ACTIVITIES

LaBella will be conducting remedial excavation activities at the Site in compliance with the SMP and EWP. Soil removal work is being conducted to support redevelopment planning and design, and to address soil impacts identified during a November 2023 investigation (see Section 2.3) prior to the start of redevelopment construction.

The scope of work (SOW) for excavation and off-Site disposal of impacted material at the Site by LaBella includes the following tasks: general Site services and mobilization; Site preparation; material excavation, on-Site Management, and disposal; and Site restoration including backfilling and demobilization. LaBella anticipates up to five days of field work is needed for removal and restoration activities

These tasks will be implemented and performed as described in the following sections.

Generally, the project will be sequenced as follows.

#### 3.1 Sequence of Work

Generally, the SOW will be sequenced as follows. The sequence may change based on Site conditions.

1. Prepare pre-work notification submittal for the NYSDEC.
2. Mobilize equipment, materials and personnel to Site.
3. Install erosion control measures and inlet protection as required.
4. Construct waste staging area.
5. Initiate CAMP and continue during intrusive work in the waste fill areas and while loading/managing wastes on Site.
6. Excavate hazardous soil area to depths and widths as delineated in previous investigation.
7. Delineate and excavate non-hazardous soils outside previous delineation endpoints.
8. Collection of additional delineation end-point confirmation soil samples and waste characterization samples as necessary for non-hazardous soil with contaminants exceeding CUSCOs.
9. Transportation of both excavated hazardous waste and non-hazardous waste for off-Site disposal.
10. Backfill excavation following sample collection and approval.
11. Perform Site survey of excavation and backfill limits.
12. Demobilize and remove equipment.

13. Prepare and submit summary report with supporting documentation detailing excavation and removal activities performed.

### 3.1.1 General Site Services and Mobilization

#### Notification

At least 15 days prior to the start of any intrusive work that will entail penetrating into the existing site soils and expose underlying, residual contamination, the site owner, or their representative will notify NYSDEC. Currently, this notification will be made to:

Brittany O'Brien-Drake  
Assistant Geologist, Project Manager  
Division of Environmental Remediation, Remedial Bureau D  
625 Broadway, 12<sup>th</sup> Floor, Albany, NY, 12233

This notification will include:

- A schedule for the work, detailing the start and completion of all intrusive work;
- Identification of waste profile application and disposal facilities for hazardous and non-hazardous waste streams; and,
- Identification of sources of any anticipated backfill, along with all required chemical testing results and clean fill certifications.

#### Health and Safety

LaBella will follow applicable sections of the Health and Safety Plan (HASP) in Appendix D of the SMP. This will include holding daily health and safety meetings that will be documented on tailgate job hazard analysis (JHA) forms. Personal protective equipment (PPE) which will generally consist of *Modified Level D PPE*, which is Level D PPE plus protective clothing to prevent skin contact or contamination of support zone areas.

- *Full Modified Level D PPE* consists of Level D PPE plus coveralls, nitrile gloves (or equivalent), and boots or shoe covers. Full Modified Level D PPE is necessary when extensive contact with contaminated materials is anticipated, such as the excavation of contaminated soils. Full Modified Level D PPE is also required when handling corrosive chemicals.
- *Lightweight Modified Level D PPE* consists of nitrile gloves (or equivalent) and boots or boot covers. Lightweight Modified level D is necessary when minimal contact with contaminated materials is anticipated and contamination control must be maintained. Appropriate tasks for Lightweight Modified Level D PPE include equipment operators with minimal direct contact, surveyors, drilling and soil sampling technicians, inspectors, etc. The Site Safety and Health Coordinator (SSHC) shall determine which is appropriate based on-site conditions.

#### Site Security

The Site is partially enclosed by existing fencing. All on-site personnel and visitors will be required to sign in and sign out before entering or leaving the site. LaBella will maintain records of all site access

and security incidents. Visitors will be required to read and conform to the HASP prior to accessing controlled work zones. Vehicular traffic will be permitted in designated parking areas within the Support Zone. Use of parking areas will be restricted to vehicles of LaBella and subcontractors, the Owner, service vehicles related to the work, and authorized visitors

Access to the Exclusion and Contamination Reduction Zones will be restricted to authorized vehicles only. Visual barriers comprised of caution tape and temporary construction fence will be installed at the work zones prior to the task implementation. The zone locations will be determined in the field by LaBella. The locations of the zones will always be one of the topics discussed during the daily safety meeting. Active remediation in the work area will only commence after the zones are established.

### Traffic Control

Excavation and removal activities shall be conducted between 7:00 AM and 5:00 PM on weekdays.

Vehicle parking and material staging will be located south of the North Landfill (see **Figure 1b**). Equipment will be parked/staged where needed on the Site. No equipment and/or contractor parking will be allowed on South Street or Pierces Road.

Vehicular traffic will be confined to a single exit and entry point, which is the existing gateway west of Pierces Road. A stabilized construction entrance/exit will be installed on “Old Pierces Road” at this existing gateway (see Section 3.1.2 below).

A decontamination pad will be installed west of the stabilized construction entrance (see Section 3.1.2 below). All vehicles in contact with the impacted material will undergo decontamination.

### Equipment

The following equipment will be mobilized to the Project Site:

- 19,000 # Excavator (KUBOTA KX080 or equivalent)
- 3 CY Rubber Tired Loader (JD 624 or equivalent)
- Skid Steer (Bobcat S450 or equivalent)
- 6,500 # Plate Compactor

### 3.1.2 Site Preparation

#### Vegetation Clearing

The proposed excavation area will be cleared and grubbed as necessary to facilitate work activities. No trees are present in this area. The cutting shrubs shall be six inches above the ground surface for clearing in the known contaminated areas. Anything below this height should be considered grubbing, and associated soils and root balls shall be handled as contaminated soils. Root balls removed from the excavation areas and waste consolidation area shall have soil removed to the extent practicable. The removed soil shall be handled as potentially contaminated and be disposed of off-site.

### Site Access Routes

Access to the Site will be from the existing Old Pierces Road. No additional Site access roads will be constructed. If needed, partial sections of Old Pierces Road will be improved to allow safe access for construction vehicles. Improvements would consist of a layer of geotextile covered with a minimum of a six (6)-inch layer of 2-inch stone.

A stabilized construction entrance with approximate dimensions of 50' x 15' will be installed at the entrance to Pierces Road. The construction entrance will be constructed with a layer of geotextile covered with a minimum of a six (6) inch layer of 2-inch stone.

Wheel washing and other equipment decontamination will be conducted at an installed decontamination pad. The proposed decontamination pad will be located west of the stabilized construction entrance. If determined in the field, gross contamination will be removed by a dry decontamination over polyethylene sheeting, and collection of the loose materials.

### Impacted Material Staging Area

The temporary staging area is shown on **Figure 1b**. Material staging at the Site will be limited and in proximity to the excavation area at a location considered to be least disruptive to Site activities and access. Hazardous and non-hazardous soils will be staged separately on-Site prior to off-Site transport and disposal to appropriate facilities. Each stockpile will be separately generated according to waste stream and clearly labeled on-Site with signage. Stockpiles will be constructed using a 40-mil thick liner to prevent infiltration, leakage, or spillage of contaminated material. The liner will be placed under and a minimum of four (4) feet beyond limits of stockpiled material. Overlapped sections of liner will be maintained at a minimum of two (2) feet. A minimum 20-mil thickness impermeable stockpile cover will be installed all times the pile is not actively in use to prevent contact with precipitation and/ or erosion of stockpiled material. Soil stockpiles will be continuously surrounded with a berm and/or silt fence and appropriately anchored to prevent uplift during high winds.

### Utility Clearance

Prior to the initiation of any excavation activities at the Site, the location of buried utilities in the vicinity of the investigation area will be identified and marked. This will be done by contacting the UDig NY hotline and referring to current construction drawings. We understand that there are no underground utilities in the planned subsurface work area. Care will be taken when excavating around utilities and hand excavation will be employed if deemed necessary to protect the utilities and/or underground structures.

### Erosion Controls

Due to the very limited area of proposed soil excavation, neither a Construction Storm Water Permit nor an Erosion Control Plan will be required. Such permits or plans are typically required for disturbance of one acre or greater during construction. Although such permits or plans will not be required, an effort will be made to prevent negative impacts to storm water. Erosion control measures will be utilized to minimize excavated and backfill material from negatively impacting storm water quality. Such measures may include the use of polyethylene sheeting to cover staged impacted material and clean backfill material, and the placement of downgradient berms and/ or silt fence. The excavation will be covered with polyethylene sheeting during periods of unexpected precipitation, and

the upgradient edge of the cover will be appropriately bermed to prevent overland flow from seeping under the cover and entering into the excavation.

### Equipment Decontamination

Heavy equipment that come into contact with impacted or potentially impacted material will be visually inspected and decontaminated. Equipment will be decontaminated on the decontamination station. Only those parts of the equipment that have been exposed to the contaminated materials need be decontaminated. All personnel performing equipment decontamination shall do so wearing modified Level D protection. Methods used to decontaminate heavy equipment may include:

1. Cleaning all loose debris with a brush, broom or spade,
2. Rinsing equipment with water or high-pressure hot water washing and/or steam cleaning, as necessary.

Trucks loaded with soil for transport will be visually inspected and loose or grossly impacted material will be removed by brush broom or spade before traveling access route to the decontamination pad. Prior to leaving the site the trucks will be decontaminated within the decontamination pad. Wheel washing and other equipment decontamination will be conducted at the installed decontamination pad as necessary.

The decontamination pad will be constructed of an impervious material (polyethylene sheeting) to prevent seepage into the ground and will be sloped to drain to a sump for collection of the decontamination water. The polyethylene will be covered with non-woven geotextile and gravel to protect the polyethylene from damage. Collected water will be transferred to on-Site drums using a submersible pump and disposed of off-Site in accordance with requirements of a disposal facility.

### CAMP Monitoring

LaBella will provide Community CAMP monitoring, consistent with Appendix 1A of DER-10, Generic Community Air Monitoring Plan, during all soil disturbance activities including excavation and loadout. Three CAMP stations will be set up to collect readings for VOCs using a PID, and particulates using a DustTrak particulate meter. The stations will be positioned in upwind, work zone, and downwind locations relative to the active excavation area. Exceedances of the action levels in the CAMP will be reported to NYSDEC and New York State Department of Health (NYSDOH) Project Managers consistent with SMP EWP C-13.

### Waste Management

Waste materials will be consolidated on-Site within the impacted material staging area prior to being transported for off-Site disposal and include:

- Off-site disposal of approximately 45-cubic yards, or approximately 75-tons, of hazardous soil material within an approximately 144-square foot excavation area to a maximum of 8.5-ft. bgs, depicted on **Figure 1b**.

- Off-site disposal of non-hazardous soil material exceeding NYSDEC CUSCOs outside the delineated hazardous material area shown on **Figure 1b**.
- Decontamination fluids
- General construction material and debris (i.e., PPE, silt fencing, polyethylene sheeting, and any other waste) generated by LaBella during excavation and removal activities.

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded. Air monitoring and erosion and sediment control measures will remain in place during soil staging and loading activities.

### 3.2 Material Excavation, On-Site Management, and Disposal

This section summarizes the means and methods for conducting excavation of impacted material.

The complete excavation has been divided into two (2) separate excavations: excavation of hazardous material extents identified during LaBella's November 2023 delineation investigation; and additional excavation of outlying soils with heavy metals constituents (i.e., barium and cadmium) with concentrations exceeding their respective NYSDEC CUSCOs.

Excavation of the hazardous soil material will commence at test-pit location, TP-1 (**Figures 1b and 1c**), and extend vertically to bedrock refusal at approximately 8 to 8.5-feet bgs and horizontally to end-point confirmation soil boring locations B-01 (east), B-03 (west), B-04 (south), and B-05 (north). Excavated hazardous material will be stockpiled on-Site with IDW soils generated during previous delineation field investigation and disposed of off-Site at an appropriate disposal facility in accordance with all applicable federal and state regulations, based on previous waste characterization sampling performed. The approved destination facility for the hazardous waste will be provided prior to transport.

After completing excavation of hazardous material to the limits described above and shown on **Figure 1c**, the excavation area will be expanded horizontally to remove soils with metal concentrations greater than NYSDEC CUSCOs, anticipated to be non-hazardous based on prior delineation sample results. Excavation progress will be monitored in the field using various methods including additional field screening and confirmation end-point sampling. The final horizontal extent will be determined during excavation activities by field screening with a XRF analyzer to assess concentrations of select metals and a PID to screen for evidence of VOCs. This soil will be stockpiled and staged separately from the hazardous material as described in Section 3.1.2. Final excavation extents will be confirmed by laboratory analysis of post-excavation confirmation end-point soil samples. The sample frequency will be based on DER-10 guidance and the approximate field measured area of the excavation final extents. Confirmation end-point soil samples will be collected from the bottom foot of soil at the excavation limits. We anticipate collecting four (4) post-excavation confirmation end-point samples of material representing the limits impacted material excavation (four sidewalls). As bedrock is expected to be encountered at the excavation limits, a soil sample will not be collected. Confirmation soil sample analytical parameters for comparison to NYSDEC Part 375 SCOs will consist of the following:

- TCL with CP-51 VOCs using USEPA Method 8260

- TCL with CP-51 SVOCs using USEPA Method 8270
- Pesticides using USEPA Method 8081
- PCBs using USEPA Method 8082
- TAL metals using USEPA Methods 6010 and 7473
- PFAS using USEPA Method 1633 achieving reporting limits for Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonic acid (PFOS) of 0.5 micrograms per kilogram (ug/kg).

After excavation completion, confirmation sample results will be reviewed to evaluate achievement of the NYSDEC CUSCOs. Based on confirmation of sampling analytical results, additional excavation may be required. Once CUSCOs are achieved, additional excavated material outside the delineated limits of hazardous material will be deemed unacceptable for reuse in accordance with the SMP and DER-10, and transported off-Site for disposal, based on additional waste characterization results. Waste characterization soil samples will be collected at a frequency of one (1) composite sample per 200-cubic yards of waste material. Each composite sample will be made of four (4) discrete samples representative of the additional material encountered and stockpiled. Waste characterization samples will be analyzed for analytical parameters listed above and a TCLP for leachable inorganic constituents. The results of the waste characterization will be compared to NYSDEC Part 375 CUSCOs and hazardous waste threshold criteria, and if non-hazardous, will be submitted to a proposed disposal facility with a waste profile. The approved destination facility for the waste will be provided prior to transport.

### 3.3 Site Restoration

Following termination of excavation activities and review of confirmation sampling analytical results Site restoration activities will commence and include a survey of the excavation area, backfilling of the excavation area, and demobilization from the Site.

#### 3.2.1 Excavation Area Survey

A LaBella land surveyor licensed to practice in the State of New York will perform a final conditions survey of the excavation area prior to backfilling. A survey map signed and sealed by the surveyor will be submitted to the Engineer at the completion of the survey.

The final conditions survey drawing will show the vertical and horizontal limits of the excavation, excavation bottom elevation, and the elevation of surrounding undisturbed grade. Spot elevations of ground surface and excavation bottom will be provided at a minimum spacing of 5 feet on-center across the entire area surveyed. The survey will also include locations and coordinates of all post-excavation samples.

The horizontal and vertical datums used in the survey shall be NAD1983 and NAVD1988, respectively. The final conditions survey will show all corners of the excavation area, labeled with coordinates using the specified datum.

### 3.2.2 Backfilling

The excavation will be lined with a demarcation layer (i.e., geotextile fabric or construction fencing) and backfilled with suitable, clean fill material obtained from an off-Site source. Clean fill is defined as material free of pesticides, deleterious substances, organic matter, wood, plastic, cardboard, paper, metal objects, gypsum board, rubble, and debris of any kind, including construction and demolition (C&D) debris and any non-naturally occurring material. Backfilling will be done with fill material approved by the NYSDEC and no fill material shall be brought on-Site prior to approval.

Documentation for structural fill material proposed for use as fill will be submitted to the NYSDEC for approval prior to delivery to the Site. The following information for the material will be submitted as follows:

- Laboratory data and complete chain of custody forms for samples of proposed material. LaBella will collect and analyze representative samples of fill material in accordance with NYSDEC DER-10, 2.01 5.4(e) for the complete list of 6 NYCRR 375 SCO parameters. Samples will also be analyzed for emerging contaminants (PFAS and 1,4-dioxane).
- A NYSDEC Request to Import/Reuse Fill or Soil Form will be completed and submitted to the NYSDEC.

Backfilling of the excavation area will not occur prior to NYSDEC approval following review of all applicable post excavation sampling data and LaBella has confirmed that, based on the soil sampling results, no additional material excavation and/or post-excavation soil sampling will be required. Additionally, no backfilling will occur until the final excavation survey has been performed.

Structural fill (i.e., Item 4 Subbase Material) is proposed for backfilling the excavation and is anticipated to be imported from Thalle Industries Quarry of Fishkill, New York (Thalle), NYSDEC Facility ID No.: 3-5526-00325 and NYSDEC Mine Permit ID#: 3-1130-0000-449-00012. Backfill will be installed in 6 to 8-inch lifts to facilitate proper compaction. Prior to compaction, each layer will be leveled off using the blade of the excavator skid steer or small bulldozer with adequate power for the work involved. The entire area of each layer will be compacted using a vibratory plate compactor. Compaction testing will be conducted at a minimum of once per lift. Water may be added to ensure proper compaction.

### 3.2.3 Demobilization

Following completion of all impacted material excavation and removal activities, LaBella will conduct the following demobilization activities:

- Complete “punch-list” items, to be identified by the NYSDEC.
- Dismantle the work area(s), support/staging area(s), and decontamination area(s).
- Remove remaining erosion and sediment control measures when the excavation and removal activities are completed.
- Transport residual wastes (e.g., disposable equipment; PPE; sampling equipment; cleaning residuals; sacrificial soil and liners from the material staging, and equipment decontamination areas) remaining at the completion of Site work for offsite disposal in accordance with applicable rules and regulations.

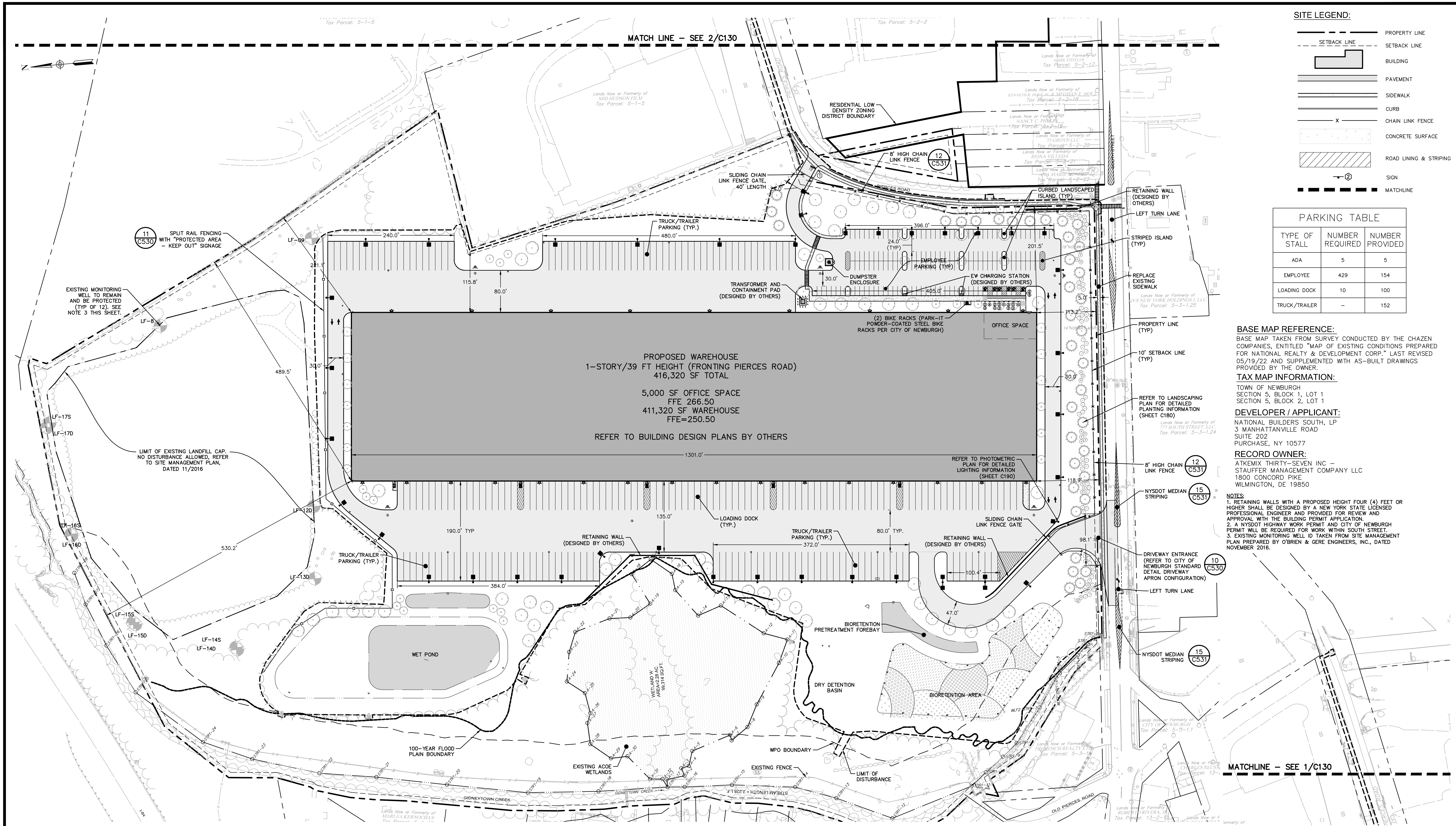


- Remove/dispose of project-related material, equipment, temporary fencing, and support structures from the Site, as appropriate.
- Prepare and provide required final field records and submittals to the NYSDEC as described in the following section.

## 4.0 EXCAVATION AND REMOVAL DOCUMENTATION

LaBella shall prepare and submit a Summary Report to the NYSDEC, following the completion of excavation and removal construction activities. The Summary Report will present, at a minimum, the following information:

- Description of the activities completed in accordance with the NYSDEC-approved work plan, including problems encountered and variations (if any) from the NYSDEC-approved work plan.
- Record drawings, tables, and figures detailing the excavation activities completed and indicating that NYSDEC CUSCO criteria were met.
- Information and documentation regarding the final quantities and disposition of materials disposed offsite during implementation of the excavation and removal activities, including executed manifests and bills of lading.
- Summaries of field observations, laboratory samples collected, and monitoring results obtained during construction (e.g., CAMP monitoring).
- Representative photographs taken during implementation of excavation and removal activities.



**SITE LEGEND:**

- PROPERTY LINE
- - - SETBACK LINE
- ▭ BUILDING
- ▬ PAVEMENT
- ▬ SIDEWALK
- CURB
- X CHAIN LINK FENCE
- ▨ CONCRETE SURFACE
- ▨ ROAD LINING & STRIPING
- ⊙ SIGN
- MATCHLINE

**PARKING TABLE**

TYPE OF STALL	NUMBER REQUIRED	NUMBER PROVIDED
ADA	5	5
EMPLOYEE	429	154
LOADING DOCK	10	100
TRUCK/TRAILER	-	152

**BASE MAP REFERENCE:**  
 BASE MAP TAKEN FROM SURVEY CONDUCTED BY THE CHAZEN COMPANIES, ENTITLED "MAP OF EXISTING CONDITIONS PREPARED FOR NATIONAL REALTY & DEVELOPMENT CORP." LAST REVISED 05/19/22 AND SUPPLEMENTED WITH AS-BUILT DRAWINGS PROVIDED BY THE OWNER.

**TAX MAP INFORMATION:**  
 TOWN OF NEWBURGH  
 SECTION 5, BLOCK 1, LOT 1  
 SECTION 5, BLOCK 2, LOT 1

**DEVELOPER / APPLICANT:**  
 NATIONAL BUILDERS SOUTH, LP  
 3 MANHATTANVILLE ROAD  
 SUITE 202  
 PURCHASE, NY 10577

**RECORD OWNER:**  
 ATKEMIX THIRTY-SEVEN INC -  
 STAUFFER MANAGEMENT COMPANY LLC  
 1800 CONCORD PIKE  
 WILMINGTON, DE 19850

**NOTES:**  
 1. RETAINING WALLS WITH A PROPOSED HEIGHT FOUR (4) FEET OR HIGHER SHALL BE DESIGNED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AND PROVIDED FOR REVIEW AND APPROVAL WITH THE BUILDING PERMIT APPLICATION.  
 2. A NYS DOT HIGHWAY WORK PERMIT AND CITY OF NEWBURGH PERMIT WILL BE REQUIRED FOR WORK WITHIN SOUTH STREET.  
 3. EXISTING MONITORING WELL ID TAKEN FROM SITE MANAGEMENT PLAN PREPARED BY O'BRIEN & GERE ENGINEERS, INC., DATED NOVEMBER 2016.

1 OVERALL SITE PLAN  
 SCALE: 1"=80'

2 OVERALL SITE PLAN  
 SCALE: 1"=80'

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rev.	date	description
6	02/09/23	REVISED PER NYS DOT COMMENTS
5	12/23/22	REVISED PER NYS DOT COMMENTS
4	10/26/22	REVISED PER CITY AND NYS DOT COMMENTS
3	08/16/22	ISSUED FOR NYS DOT REVIEW
2	07/08/22	REVISED PER CITY COMMENTS
1	12/03/21	REVISED PER CITY COMMENTS

**NEWBURGH WAREHOUSE**

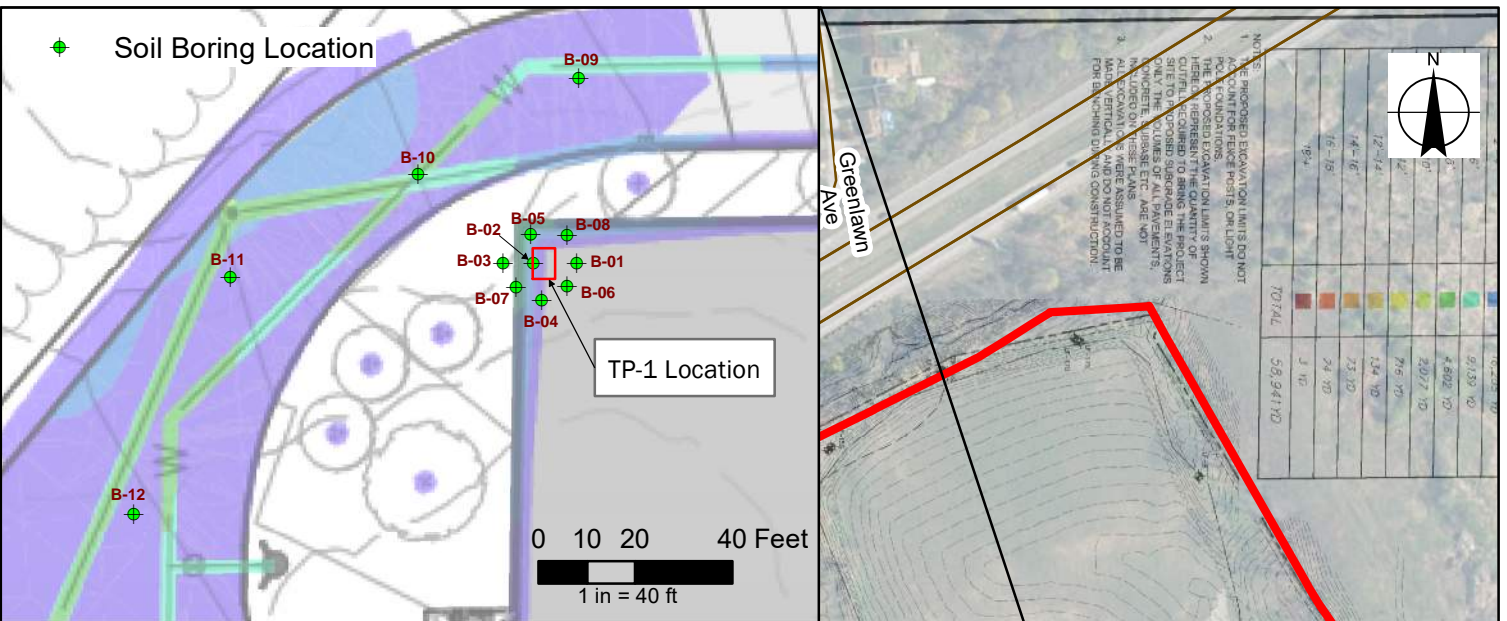
**OVERALL SITE PLAN**

CITY OF NEWBURGH, ORANGE COUNTY, NEW YORK

designed	checked
CAR	WJK
date	scale
9/24/21	1"=80'
project no. 32142.00	
sheet no. FIG 1	



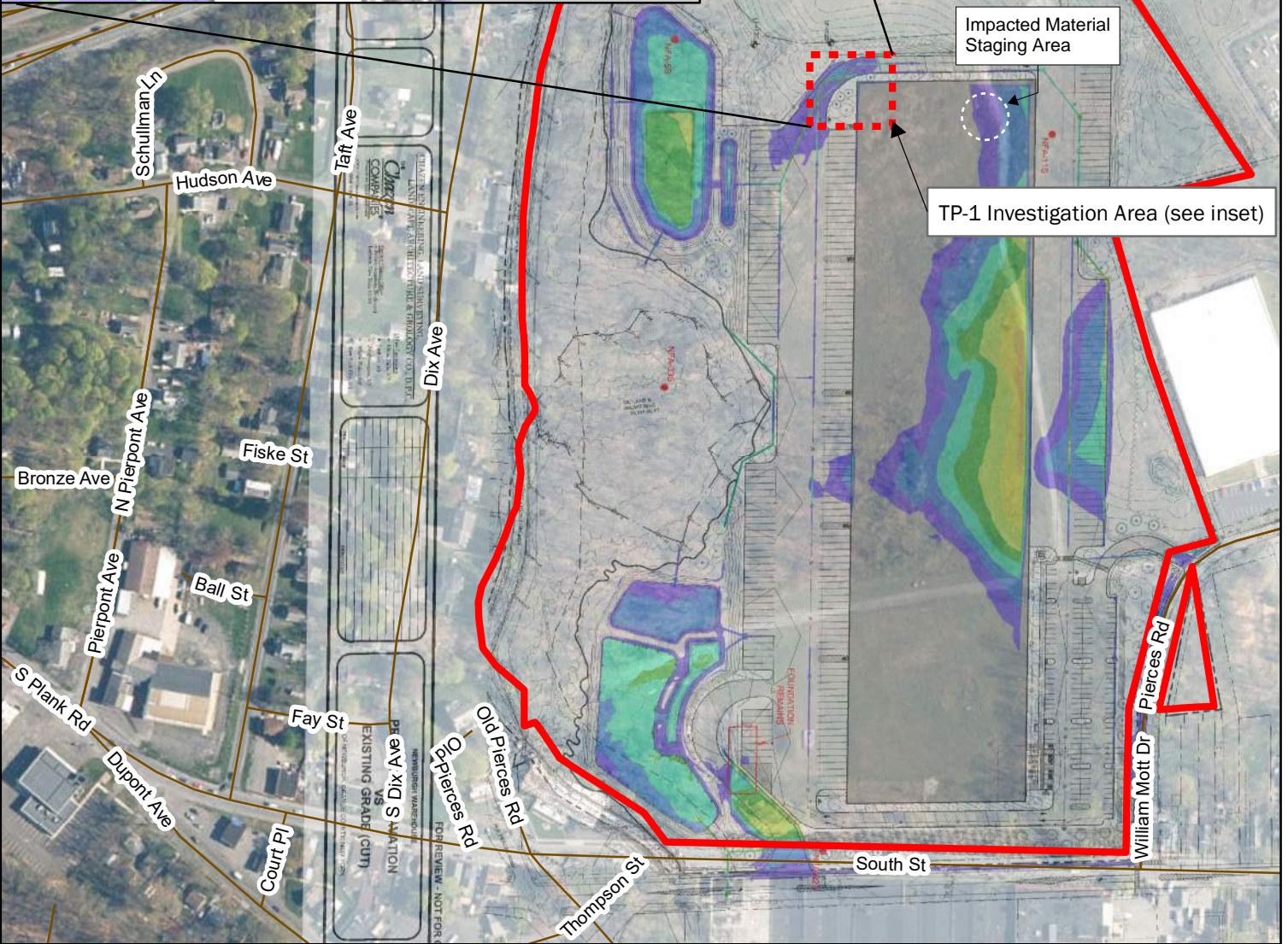
Creator: MO



**NOTES:**

1. THE PROPOSED EXCAVATION LIMITS DO NOT ACCOUNT FOR FENCE POSTS, OR LIGHT.
2. THE PROPOSED EXCAVATION LIMITS SHOWN HEREIN REPRESENT THE QUANTITY OF CUT/FILL REQUIRED TO BRING THE PROJECT TO GRADE FOR THE PROPOSED SURFACE ELEVATIONS (CONCRETE, ASPHALT, GRAVEL, ETC. AGE 10"). ALSO EXCAVATIONS WERE ASSUMED TO BE ALLOWED OVER THESE PLANS.
3. ALL EXCAVATIONS WERE ASSUMED TO BE FOR EXCHANGING TO ANOTHER COMPOSITION.

101742	15'-0"	12'-0"	14'-6"	15'-6"	14'-0"	12'-0"	8'-0"	5'-0"	4'-0"	3'-0"	2'-0"	1'-0"	0'-0"	101741
58,941'00	3'-0"	1'-0"	23'-00	24'-00	7'-6'-00	134'-00	2017'-10	4,802'-10	91,39'-00	81,39'-00	0'-0"	0'-0"	0'-0"	101740



Source:  
Orange County 2013 Tax Parcel Dataset; NYS Department of Transportation 2022 Simplified Street Dataset; ARCGIS Basemap Layer Orthophotograph dated March 2021.

0 200 400 Feet  
1 inch = 300 feet

**LaBella**  
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**Brookfield Properties**

IV5 Newburgh South Logistics Center LLC  
700 South Street  
City of Newburgh, Orange County NY  
LaBella Project No: 2222335  
Date: 12/22/2023

**TP-1 Soil Delineation - Soil Boring Locations**

**FIGURE #1b**

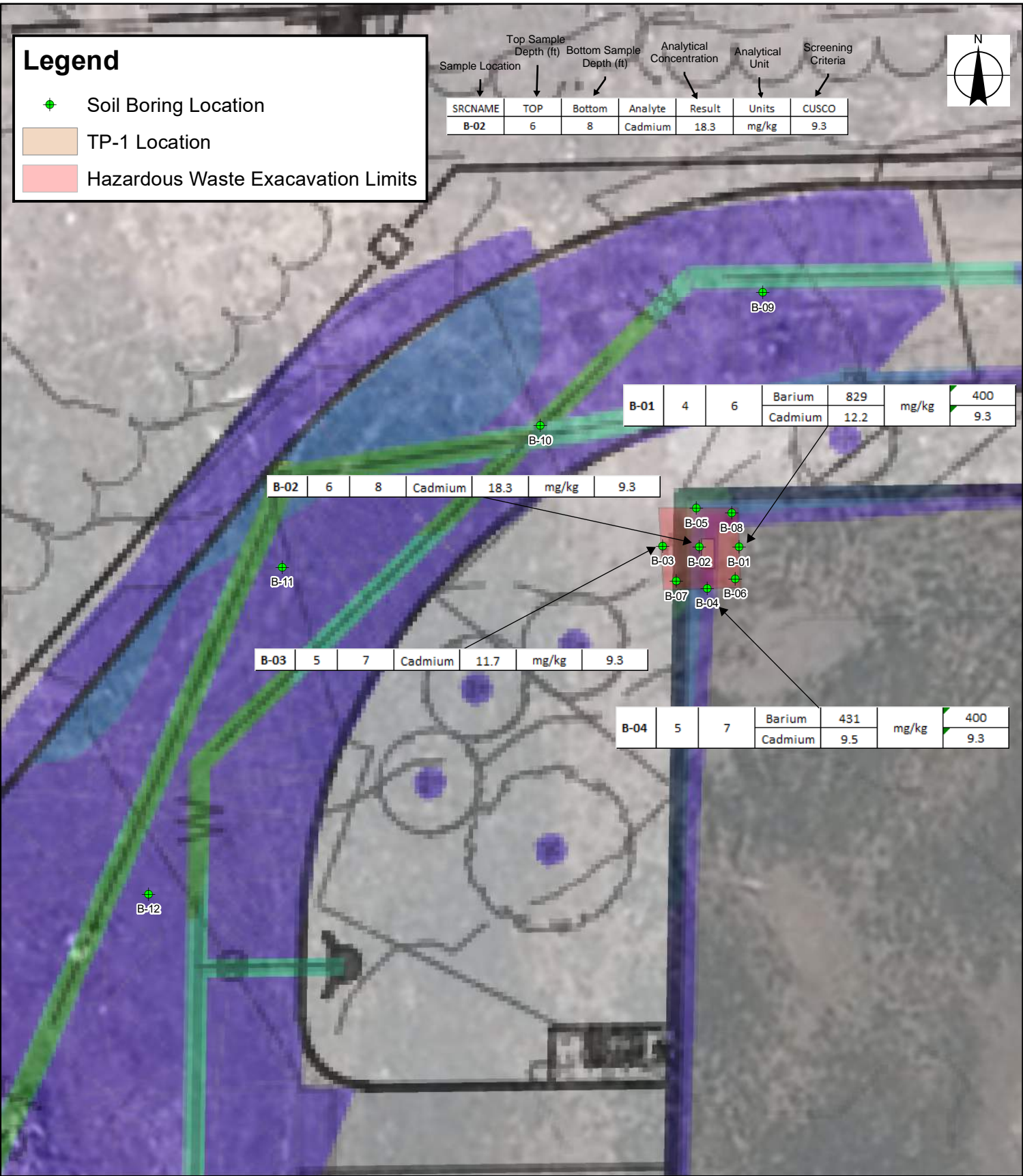
Path: B:\GLOBAL\Projects\Brookfield Properties\2222335 - Newburgh Warehouse Env.DD\06\_Drawings\Environmental\TP-1 Delineation\SB Locations.mxd



# Legend

- Soil Boring Location
- TP-1 Location
- Hazardous Waste Excavation Limits

Sample Location	Top Sample Depth (ft)	Bottom Sample Depth (ft)	Analyte	Result	Analytical Unit	Screening Criteria
SRCNAME	TOP	Bottom	Analyte	Result	Units	CUSCO
B-02	6	8	Cadmium	18.3	mg/kg	9.3



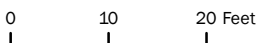
B-01	4	6	Barium	829	mg/kg	400
			Cadmium	12.2		9.3

B-02	6	8	Cadmium	18.3	mg/kg	9.3
------	---	---	---------	------	-------	-----

B-03	5	7	Cadmium	11.7	mg/kg	9.3
------	---	---	---------	------	-------	-----

B-04	5	7	Barium	431	mg/kg	400
			Cadmium	9.5		9.3

Source:  
 Orange County 2013 Tax Parcel Dataset; NYS Department of Transportation 2022 Simplified Street Dataset; ARCGIS Basemap Layer Orthophotograph dated March 2021.



1 inch = 20 feet



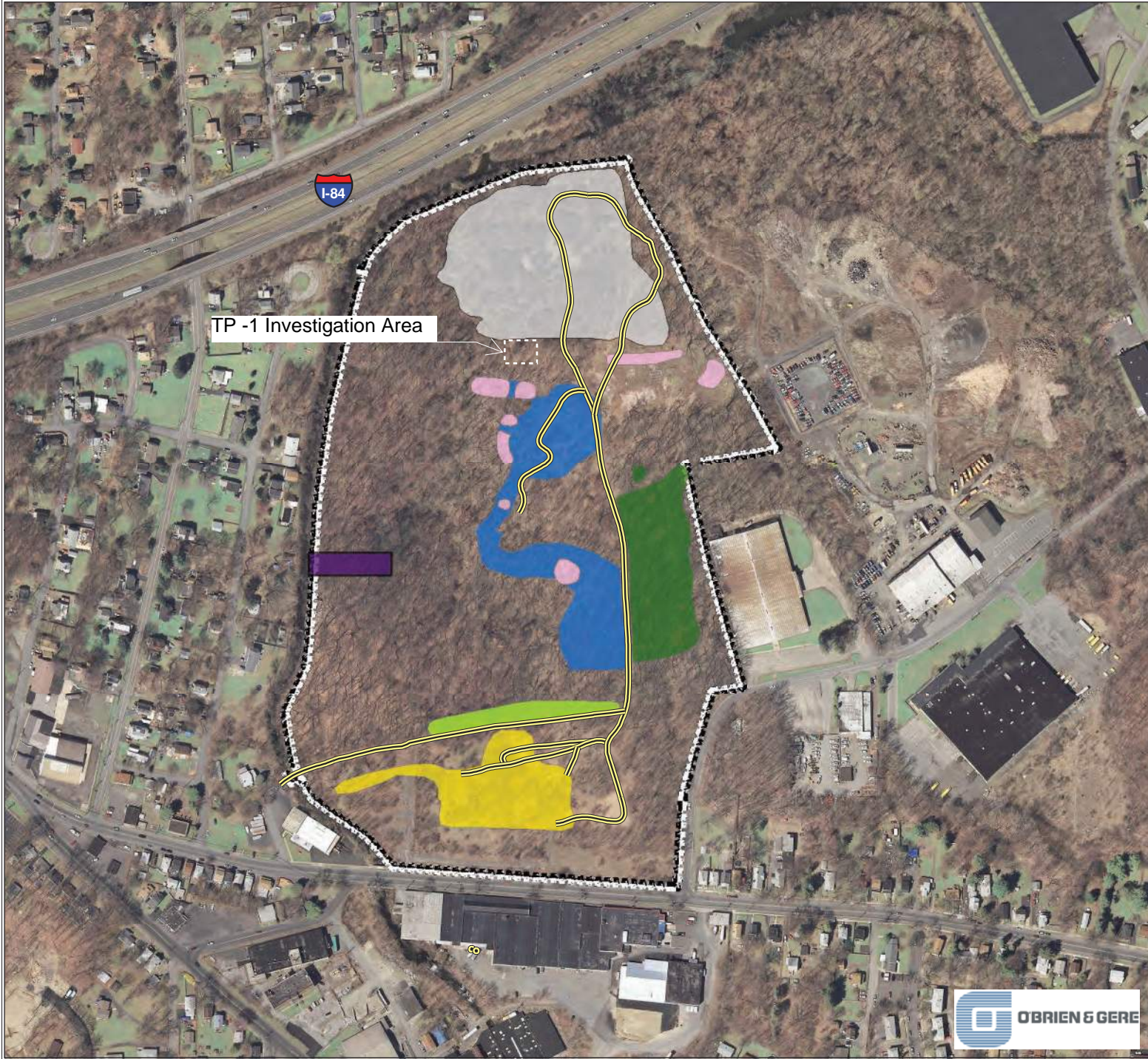
Brookfield Properties

IV5 Newburgh South Logistics Center LLC  
 700 South Street  
 City of Newburgh, Orange County NY  
 LaBella Project No: 2222335  
 Date: 1/11/2024

**TP-1 Soil Delineation - Endpoint Soil NYSDEC Commercial SCO Exceedances**

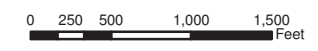
**FIGURE #1c**





### Legend

- Unpaved Roads
- Fill Areas**
  - Type A: Grey Incinerator Ash & Cinders
  - Type B: C&D Debris, PVC, Fabrics Scattered
  - Type C: C&D Debris, Ash, Cinders, PVC, Fabrics
  - Type D: PVC & Fabrics with VOCs detected
  - Type E: Shallow Soils
  - Type F: Mounded Soils
  - South Landfill Ash/Cinders
- Fence

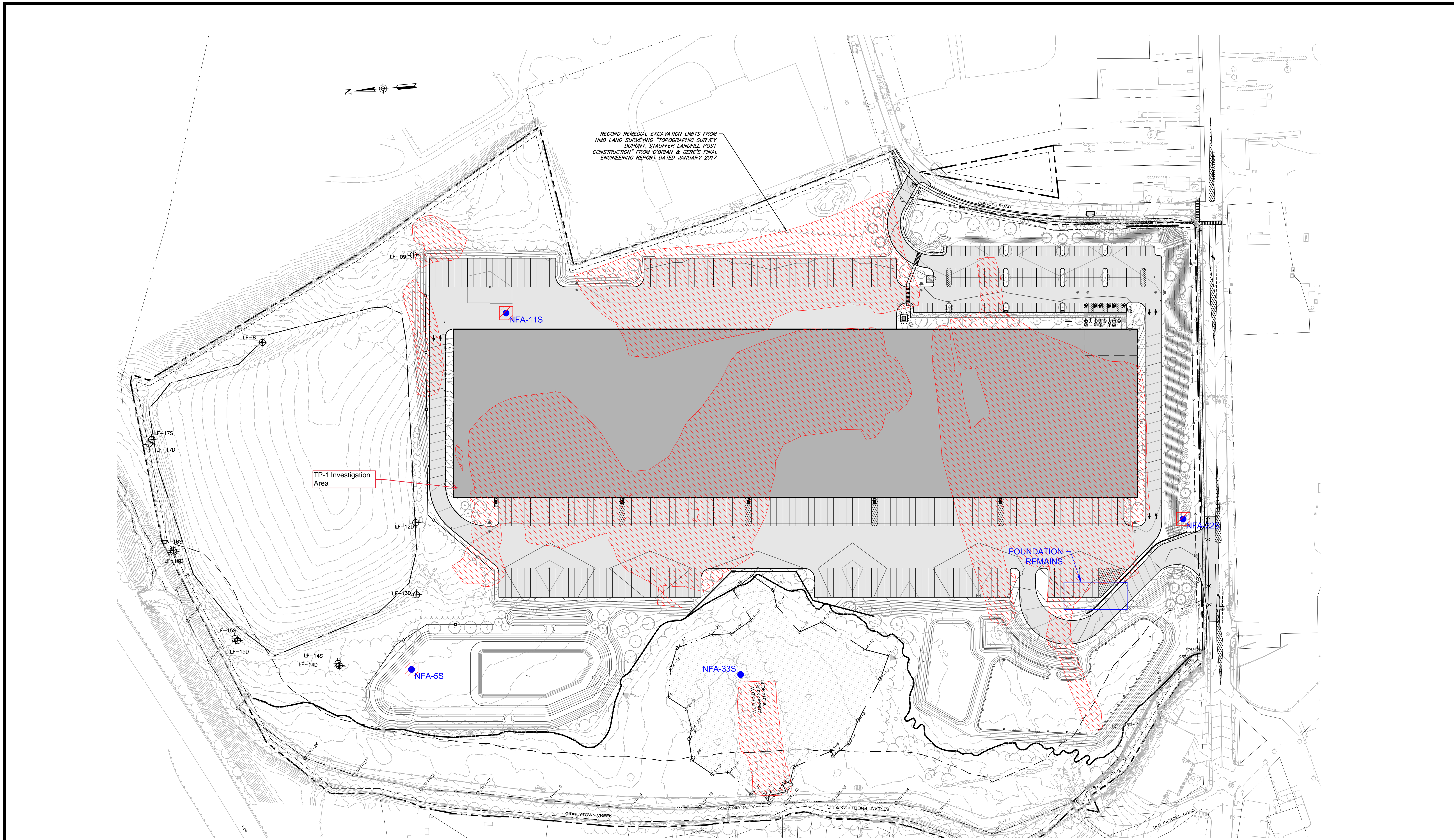


**Site Plan**  
DuPont - Stauffer Landfill  
Newburgh, New York



**Figure 2a** December 2008





REVISED 04/12/2023

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rev.	date	description

NEWBURGH WAREHOUSE

**RECORD REMEDIAL EXCAVATION LIMITS  
OVERLAIN ON  
REDEVELOPMENT PLAN**

CITY OF NEWBURGH, ORANGE COUNTY, NEW YORK

designed	checked
CLD/DCP	WJK
date 9/24/21	scale 1"=80'
project no. 32142.00	sheet no.
<b>FIG 2b</b>	



# FIGURE 3



## LEGEND

### Pre-Design Non-Fill 0-2" Sample Location

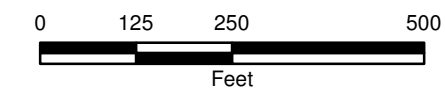
- One or more metals
- ROD SCG
- Prev Non-Fill 0-2" Sample Locations
- Water Features
- Unpaved Roads
- 2008\_fill\_limits
- Concrete Pads
- Brick Buildings
- Fence
- Fill Areas
- DELINEATED WETLAND

Note:

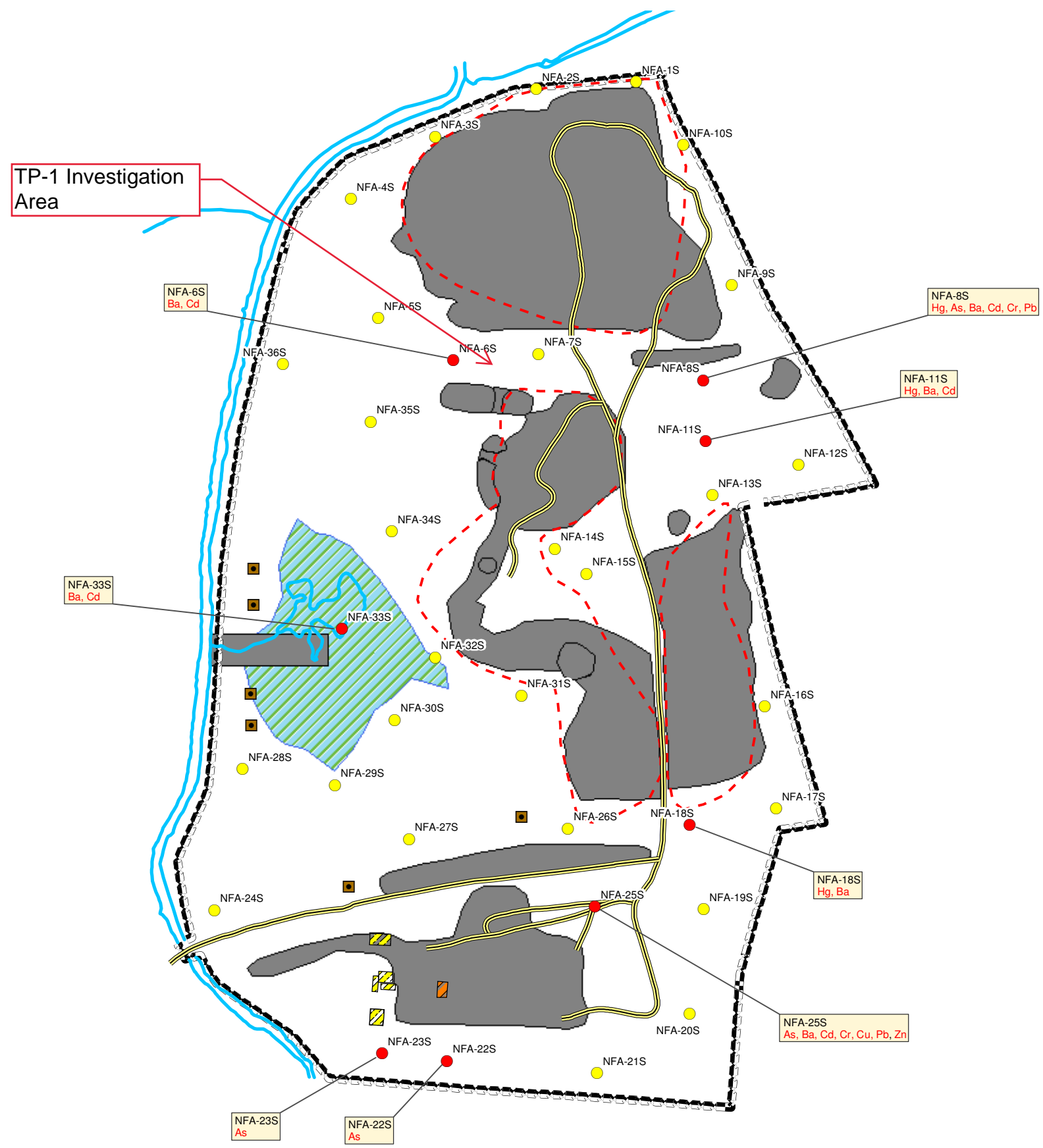
- Pre-Design sample locations were analyzed for SVOC and Metal Constituents
- Constituents listed next to location represent values exceeding referenced criteria

DuPont Stauffer Landfill  
Newburgh, New York

## 2008 Non-Fill Area Metals Sample Locations



JANUARY 2012  
5618.39860





# FIGURE 4



## LEGEND

### Pre-Design Non-Fill 0-2" Sample Locations

- Part 375
- ⊗ ROD SCG
- Prev Non-Fill 0-2" Sample Locations
- Prev Non-Fill 0-2" Sample Locations
- Water Features
- Unpaved Roads
- 2008\_fill\_limits
- Concrete Pads
- Brick Buildings
- Fence
- Fill Areas
- DELINEATED WETLAND

Note:

- Pre-Design sample locations were analyzed for SVOC and Metal Constituents
- Constituents listed next to location represent values exceeding referenced criteria

DuPont Stauffer Landfill  
Newburgh, New York

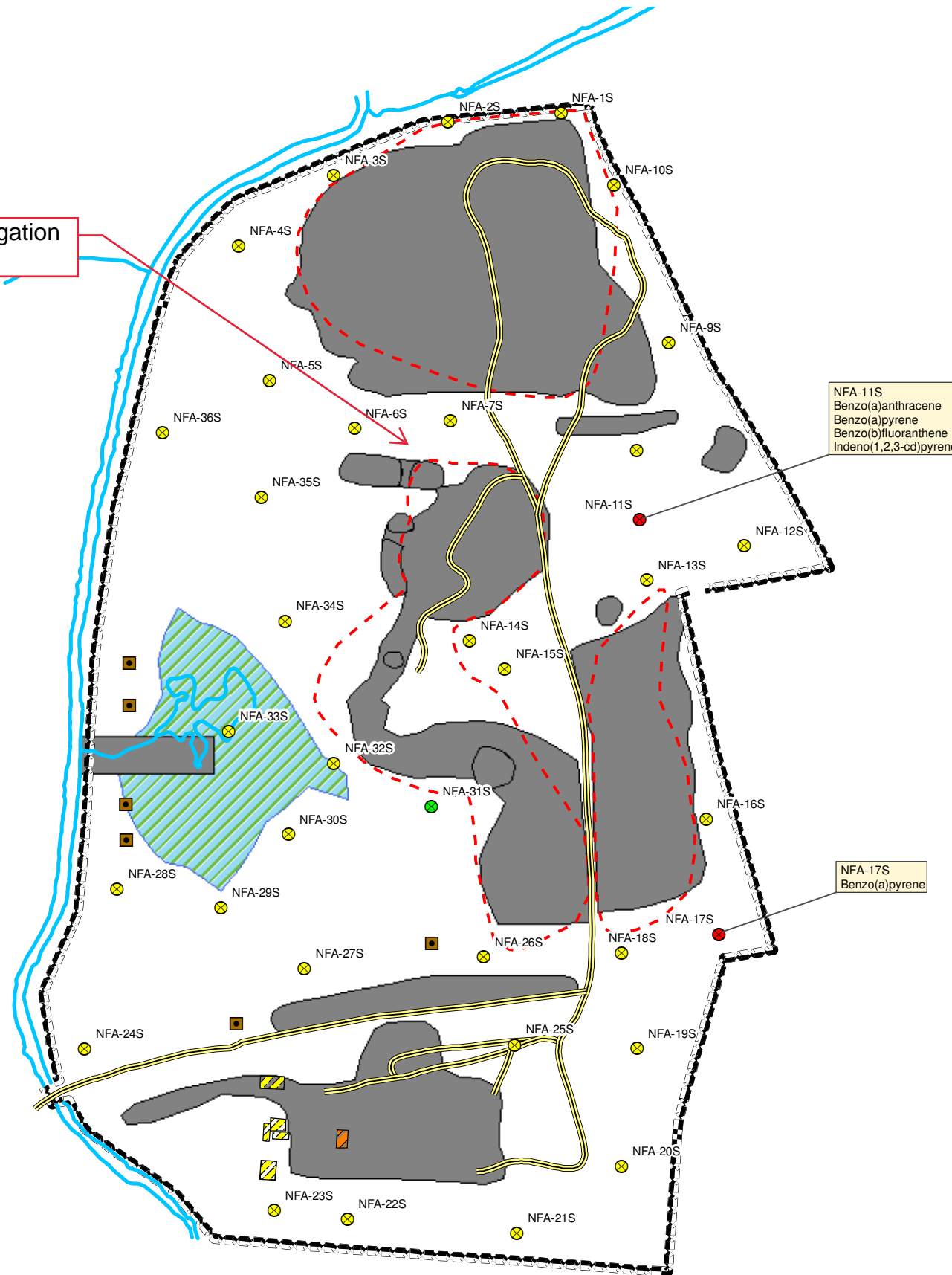
## 2008 Non-Fill Area SVOC Sample Locations



JANUARY 2012  
5618.39860



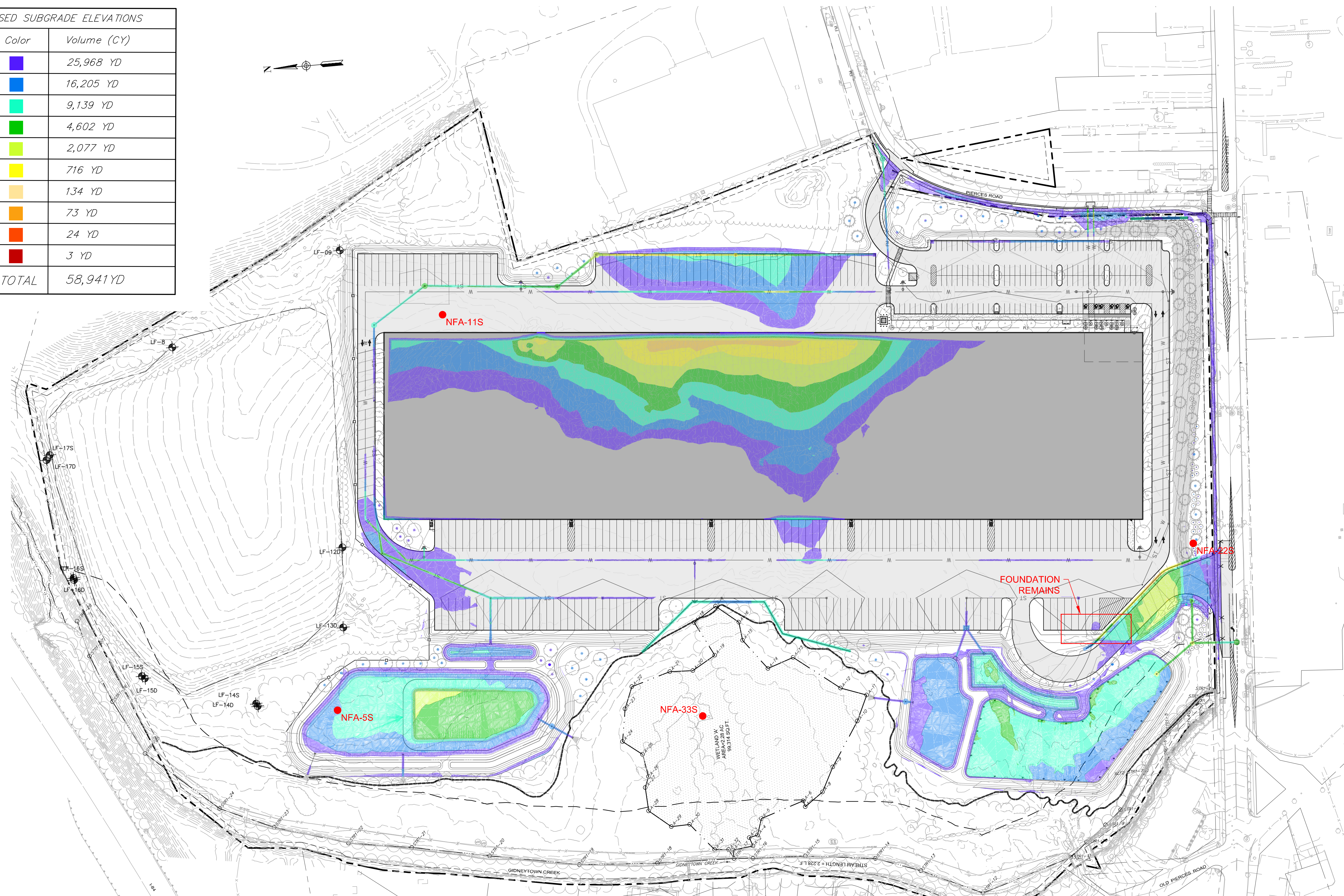
TP-1 Investigation Area





CUT REQUIRED TO ACHIEVE PROPOSED SUBGRADE ELEVATIONS		
DEPTH OF CUT (FT)	Color	Volume (CY)
0'-2'	Blue	25,968 YD
2'-4'	Light Blue	16,205 YD
4'-6'	Light Green	9,139 YD
6'-8'	Green	4,602 YD
8'-10'	Yellow-Green	2,077 YD
10'-12'	Yellow	716 YD
12'-14'	Orange	134 YD
14'-16'	Dark Orange	73 YD
16'-18'	Red-Orange	24 YD
18'+	Red	3 YD
<b>TOTAL</b>		<b>58,941 YD</b>

- NOTES:
1. THE PROPOSED EXCAVATION LIMITS DO NOT ACCOUNT FOR FENCE POSTS, OR LIGHT POLE FOUNDATIONS.
  2. THE PROPOSED EXCAVATION LIMITS SHOWN HEREON REPRESENT THE QUANTITY OF CUT/FILL REQUIRED TO BRING THE PROJECT SITE TO PROPOSED SUBGRADE ELEVATIONS ONLY. THE VOLUMES OF ALL PAVEMENTS, CONCRETE, SUBBASE ETC., ARE NOT INCLUDED ON THESE PLANS.
  3. ALL EXCAVATIONS WERE ASSUMED TO BE MADE VERTICALLY AND DO NOT ACCOUNT FOR BENCHING DURING CONSTRUCTION.



REVISED 04/07/2023

FOR REVIEW - NOT FOR CONSTRUCTION

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rev.	date	description

NEWBURGH WAREHOUSE

**PROPOSED EXCAVATION VS EXISTING GRADE (CUT)**

CITY OF NEWBURGH, ORANGE COUNTY, NEW YORK

designed	checked
CLD/DCP	WJK
date	scale
9/24/21	1"=80'
project no.	32142.00
sheet no.	FIG 5



**Table 1**  
Delineation Soil Sample Laboratory Analytical Results Summary  
700 South Street  
City of Newburgh, New York  
LaBella Project No. 2222335

Sample Location	NYSDEC Part 375-6 Soil Cleanup Objectives		5-feet East of TP-1 Center	1-foot West of TP-1 Limits	5-feet West of TP-1 Limits	6-feet South of B-02	5-ft North of B-02	
LaBella Sample ID (depth)	Unrestricted Use	Commercial Use	B-01 (4-6 ft)	B-02 (6-8 ft)	B-03 (5-7 ft)	B-04 (5-7 ft)	B-05 (5-7 ft)	
Laboratory Sample ID			23K1837-01	23K1837-02	23K1837-03	23K1837-04	23K1837-05	
Sampling Date			11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023	
Sample Matrix			Soil	Soil	Soil	Soil	Soil	
Compound			Results	Results	Results	Results	Results	
Volatile Organics 8260 Comprehensive			mg/Kg		mg/Kg		mg/Kg	
1,1,1,2-Tetrachloroethane	~	~	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.68	500	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	~	~	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	~	~	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.27	240	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	0.33	500	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	~	~	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	~	~	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	~	~	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190	ND	0.320	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	~	~	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	~	~	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	30	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	~	~	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130	ND	ND	ND	ND	ND	ND
1,4-Dioxane	0.1	130	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500	ND	ND	ND	ND	ND	ND
2-Hexanone	~	~	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	~	~	ND	ND	ND	ND	ND	ND
Acetone	0.05	500	0.022	ND	ND	0.0099	0.0058	J
Acrolein	~	~	ND	ND	ND	ND	ND	ND
Acrylonitrile	~	~	ND	ND	ND	ND	ND	ND
Benzene	0.06	44	ND	ND	ND	ND	ND	ND
Bromochloromethane	~	~	ND	ND	ND	ND	ND	ND
Bromodichloromethane	~	~	ND	ND	ND	ND	ND	ND
Bromoform	~	~	ND	ND	ND	ND	ND	ND
Bromomethane	~	~	ND	ND	ND	ND	ND	ND
Carbon disulfide	~	~	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.76	22	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500	ND	ND	ND	ND	ND	ND
Chloroethane	~	~	ND	ND	ND	ND	ND	ND
Chloroform	0.37	350	ND	ND	ND	ND	ND	ND
Chloromethane	~	~	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500	ND	0.96	ND	0.084	ND	ND
cis-1,3-Dichloropropylene	~	~	ND	ND	ND	ND	ND	ND
Cyclohexane	~	~	ND	ND	ND	ND	ND	ND
Dibromochloromethane	~	~	ND	ND	ND	ND	ND	ND
Dibromomethane	~	~	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	~	~	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390	ND	0.460	ND	ND	ND	ND
Hexachlorobutadiene	~	~	ND	ND	ND	ND	ND	ND
Isopropylbenzene	~	~	ND	ND	ND	ND	ND	ND
Methyl acetate	~	~	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	0.93	500	ND	ND	ND	ND	ND	ND
Methylcyclohexane	~	~	ND	0.13	ND	ND	ND	ND
Methylene chloride	0.05	500	0.0086	ND	0.0071	ND	0.014	
n-Butylbenzene	12	500	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3.9	500	ND	ND	ND	ND	ND	ND
o-Xylene	~	~	ND	0.43	ND	ND	ND	ND
p- & m- Xylenes	~	~	ND	1800	ND	ND	ND	ND
p-Isopropyltoluene	~	~	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500	ND	ND	ND	ND	ND	ND
Styrene	~	~	ND	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	~	~	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5.9	500	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	1.3	150	ND	4.5	ND	ND	ND	ND
Toluene	0.7	500	ND	0.64	ND	ND	ND	ND
trans-1,2-Dichloroethylene	0.19	500	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	~	~	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.47	200	ND	7.9	ND	0.0026	ND	ND
Trichlorofluoromethane	~	~	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500	ND	2.2	ND	ND	ND	ND

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700 South Street  
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LaBella Project No. 2222335

Sample Location	NYSDEC Part 375-6 Soil Cleanup Objectives		5-feet East of TP-1 Center		1-foot West of TP-1 Limits		5-feet West of TP-1 Limits		6-feet South of B-02		5-ft North of B-02		
	LaBella Sample ID (depth)	Unrestricted Use	Commercial Use	B-01 (4-6 ft)	B-02 (6-8 ft)	B-03 (5-7 ft)	B-04 (5-7 ft)	B-05 (5-7 ft)					
Laboratory Sample ID				23K1837-01	23K1837-02	23K1837-03	23K1837-04	23K1837-05					
Sampling Date				11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023					
Sample Matrix				Soil	Soil	Soil	Soil	Soil					
Compound				Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
<b>Semivolatiles, 8270 Comprehensive</b>													
	mg/Kg			mg/Kg									
1,1-Biphenyl	~	~	~	ND		ND		ND		ND		ND	
1,2,4,5-Tetrachlorobenzene	~	~	~	ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	~	~	~	ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	500	~	ND		ND		ND		ND		ND	
1,2-Diphenylhydrazine (as Azobenzene)	~	~	~	ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	2.4	280	~	ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	130	~	ND		ND		ND		ND		ND	
2,3,4,6-Tetrachlorophenol	~	~	~	ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	~	~	~	ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	~	~	~	ND		ND		ND		ND		ND	
2,4-Dichlorophenol	~	~	~	ND		ND		ND		ND		ND	
2,4-Dimethylphenol	~	~	~	ND		ND		ND		ND		ND	
2,4-Dinitrophenol	~	~	~	ND	CALE	ND	CALE	ND	CALE	ND	CALE	ND	CALE
2,4-Dinitrotoluene	~	~	~	ND	CALE	ND	CALE	ND	CALE	ND	CALE	ND	CALE
2,6-Dinitrotoluene	~	~	~	ND		ND		ND		ND		ND	
2-Chloronaphthalene	~	~	~	ND		ND		ND		ND		ND	
2-Chlorophenol	~	~	~	ND		ND		ND		ND		ND	
2-Methylnaphthalene	~	~	~	ND		ND		ND		ND		ND	
2-Methylphenol	0.33	500	~	ND		ND		ND		ND		ND	
2-Nitroaniline	~	~	~	ND		ND		ND		ND		ND	
2-Nitrophenol	~	~	~	ND		ND		ND		ND		ND	
3- & 4-Methylphenols	0.33	500	~	ND		ND		ND		ND		ND	
3,3-Dichlorobenzidine	~	~	~	ND		ND		ND		ND		ND	
3-Nitroaniline	~	~	~	ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	~	~	~	ND	CALE	ND	CALE	ND	CALE	ND	CALE	ND	CALE
4-Bromophenyl phenyl ether	~	~	~	ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	~	~	~	ND		ND		ND		ND		ND	
4-Chloroaniline	~	~	~	ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	~	~	~	ND		ND		ND		ND		ND	
4-Nitroaniline	~	~	~	ND		ND		ND		ND		ND	
4-Nitrophenol	~	~	~	ND	CCVE	ND	CCVE	ND	CCVE	ND	CCVE	ND	CCVE
Acenaphthene	20	500	~	ND		ND		ND		ND		ND	
Acenaphthylene	100	500	~	ND		ND		ND		ND		ND	
Acetophenone	~	~	~	ND		ND		ND		ND		ND	
Aniline	~	~	~	ND		ND		ND		ND		ND	
Anthracene	100	500	~	ND		ND		ND		ND		ND	
Atrazine	~	~	~	ND		ND		ND		ND		ND	
Benzaldehyde	~	~	~	ND		ND		ND		ND		ND	
Benzidine	~	~	~	ND		ND		ND		ND		ND	
Benzo(a)anthracene	1	5.6	~	ND		ND		ND		ND		ND	
Benzo(a)pyrene	1	1	~	ND		ND		ND		ND		ND	
Benzo(b)fluoranthene	1	5.6	~	ND		ND		ND		ND		ND	
Benzo(g,h,i)perylene	100	500	~	ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	0.8	56	~	ND		ND		ND		ND		ND	
Benzoic acid	~	~	~	ND	CALE, CCVE	ND	CALE, CCVE	ND	CALE, CCVE	ND	CALE, CCVE	ND	CALE, CCVE
Benzyl alcohol	~	~	~	ND		ND		ND		ND		ND	
Benzyl butyl phthalate	~	~	~	ND		ND		ND		ND		ND	
Bis(2-chloroethoxy)methane	~	~	~	ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	~	~	~	ND		ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether	~	~	~	ND	CCVE	ND	CCVE	ND	CCVE	ND	CCVE	ND	CCVE
Bis(2-ethylhexyl)phthalate	~	~	~	12.7		ND		ND		7.49		0.0752	J
Caprolactam	~	~	~	ND		ND		ND		ND		ND	
Carbazole	~	~	~	ND		ND		ND		ND		ND	
Chrysene	1	56	~	ND		ND		ND		ND		ND	
Dibenzo(a,h)anthracene	0.33	0.56	~	ND		ND		ND		ND		ND	
Dibenzofuran	7	350	~	ND		ND		ND		ND		ND	
Diethyl phthalate	~	~	~	ND		ND		ND		ND		ND	
Dimethyl phthalate	~	~	~	ND		ND		ND		ND		ND	
Di-n-butyl phthalate	~	~	~	ND		0.748		ND		ND		ND	
Di-n-octyl phthalate	~	~	~	ND	CALE	ND	CALE	ND	CALE	0.847	CALE, CCVE	ND	CALE
Fluoranthene	100	500	~	ND		ND		ND		ND		ND	
Fluorene	30	500	~	ND		ND		ND		ND		ND	
Hexachlorobenzene	0.33	6	~	ND		ND		ND		ND		ND	
Hexachlorobutadiene	~	~	~	ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	~	~	~	ND	CCVE, ICVE	ND	CCVE, ICVE	ND	CCVE, ICVE	ND	CCVE, ICVE	ND	CALE, CCVE
Hexachloroethane	~	~	~	ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	0.5	5.6	~	ND		ND		ND		ND		ND	
Isophorone	~	~	~	ND		ND		ND		ND		ND	
Naphthalene	12	500	~	ND		ND		ND		ND		ND	
Nitrobenzene	~	~	~	ND		ND		ND		ND		ND	
N-Nitrosodimethylamine	~	~	~	ND	CCVE	ND	CCVE	ND	CCVE	ND	CCVE	ND	CCVE
N-nitroso-di-n-propylamine	~	~	~	ND		ND		ND		ND		ND	
N-Nitrosodiphenylamine	~	~	~	ND		ND		ND		ND		ND	
Pentachlorophenol	0.8	6.7	~	ND		ND		ND		ND		ND	
Phenanthrene	100	500	~	ND		0.0642	J	ND		ND		ND	
Phenol	0.33	500	~	ND		ND		ND		ND		ND	
Pyrene	100	500	~	ND		0.0627	J	ND		ND		ND	
Pyridine	~	~	~	ND		ND		ND		ND		ND	

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LaBella Sample ID (depth)	Unrestricted Use	Commercial Use	B-01 (4-6 ft)	B-02 (6-8 ft)	B-03 (5-7 ft)	B-04 (5-7 ft)	B-05 (5-7 ft)
Laboratory Sample ID			23K1837-01	23K1837-02	23K1837-03	23K1837-04	23K1837-05
Sampling Date			11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Compound			Results Q	Results Q	Results Q	Results Q	Results Q
<b>Pesticides 8081 List</b>	mg/Kg		mg/Kg				
4,4'-DDD	0.0033	92	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62	ND	0.00205 <small>CCM</small>	ND	ND	ND
4,4'-DDT	0.0033	47	ND	ND	ND	ND	ND
Aldrin	0.005	0.68	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4	ND	ND	ND	ND	ND
alpha-Chlordane	0.094	24	ND	ND	ND	ND	ND
beta-BHC	0.036	3	ND	ND	ND	ND	ND
Chlordane, total	~	~	ND	ND	ND	ND	ND
delta-BHC	0.04	500	ND	ND	ND	ND	ND
Dieldrin	0.005	1.4	ND	ND	ND	ND	ND
Endosulfan I	2.4	200	ND	ND	ND	ND	ND
Endosulfan II	2.4	200	ND	ND	ND	ND	ND
Endosulfan sulfate	2.4	200	ND	ND	ND	ND	ND
Endrin	0.014	89	ND	ND	ND	ND	ND
Endrin aldehyde	~	~	ND	ND	ND	ND	ND
Endrin ketone	~	~	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2	ND	ND	ND	ND	ND
gamma-Chlordane	~	~	ND	ND	ND	ND	ND
Heptachlor	0.042	15	ND	ND	ND	ND	ND
Heptachlor epoxide	~	~	ND	ND	ND	ND	ND
Methoxychlor	~	~	ND	ND	ND	ND	ND
Toxaphene	~	~	ND	ND	ND	ND	ND
<b>Metals, Target Analyte</b>	mg/Kg		mg/Kg				
Aluminum	~	~	11900	7890	10800	10500	14700
Antimony	~	~	33.6	ND	ND	4.46	34.5
Arsenic	13	16	4.34	4.04	5.32	6.68	5.94
Barium	350	400	<b>829</b>	141	165	<b>431</b>	50.3
Beryllium	7.2	590	0.205	0.289	0.352	0.194	0.264
Cadmium	2.5	9.3	<b>12.2</b>	<b>18.3</b>	<b>11.7</b>	<b>9.50</b>	0.778
Calcium	~	~	28600	58500	4380	751	13700
Chromium	30	1500	23.2	11.0	15.4	17.3	20.8
Cobalt	~	~	4.00	4.04	6.75	9.49	9.50
Copper	50	270	34.9	33.2	23.6	27.0	23.4
Iron	~	~	20400	15400	21900	18800	21100
Lead	63	1000	<b>148</b>	19.0	23.0	35.8	15.9
Magnesium	~	~	20300	37900	6060	4040	11900
Manganese	1600	10000	461	535	1140	897	458
Mercury	0.18	2.8	ND	0.0585	ND	<b>2.61</b>	<b>0.549</b>
Nickel	30	310	14.5	10.4	16.9	19.0	18.9
Potassium	~	~	1210	1440	1760	1320	1200
Selenium	3.9	1500	ND	ND	3.47	3.71	ND
Silver	2	1500	ND	ND	ND	ND	ND
Sodium	~	~	1610	684	965	637	794
Thallium	~	~	ND	ND	ND	ND	ND
Vanadium	~	~	18.9	13.7	18.2	17.6	21.4
Zinc	109	10000	49.0	23.6	32.1	38.8	46.7
<b>PCB (Polychlorinated Biphenyls)</b>	mg/Kg		mg/Kg				
Aroclor 1016	~	~	ND	ND	ND	ND	ND
Aroclor 1221	~	~	ND	ND	ND	ND	ND
Aroclor 1232	~	~	ND	ND	ND	ND	ND
Aroclor 1242	~	~	ND	ND	ND	ND	ND
Aroclor 1248	~	~	0.0307	0.0569 <small>PCB-1</small>	ND	ND	ND
Aroclor 1254	~	~	ND	ND	ND	ND	ND
Aroclor 1260	~	~	ND	0.0182	ND	ND	ND
Total PCBs	0.1	1	0.0307	0.0751	ND	ND	ND

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Laboratory Sample ID	Unrestricted Use	Commercial Use	23K1837-01	23K1837-02	23K1837-03	23K1837-04	23K1837-05
Sampling Date			11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Compound			Results Q	Results Q	Results Q	Results Q	Results Q
<b>PFAS, EPA 1633 Target List</b>	ug/Kg (ppb)		ug/Kg (ppb)				
11CL-PF3OUds	~	~	ND	ND	ND	ND	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (R:2 FTS)	~	~	ND	ND	ND	ND	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	~	~	ND	ND	ND	ND	ND
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	~	~	ND	ND	ND	ND	ND
3-Perfluorohexyl propanoic acid (FHpPA)	~	~	ND	ND	ND	ND	ND
3-Perfluoropentyl propanoic acid (FPePA)	~	~	ND	ND	ND	ND	ND
3-Perfluoropropyl propanoic acid (FPrPA)	~	~	ND	ND	ND	ND	ND
9CL-PF3ONS	~	~	ND	ND	ND	ND	ND
ADONA	~	~	ND	ND	ND	ND	ND
HFPO-DA (Gen-X)	~	~	ND	ND	ND	ND	ND
N-EtFOSA	~	~	ND	ND	ND	ND	ND
N-EtFOSAA	~	~	ND	ND	ND	ND	ND
N-EtFOSE	~	~	ND	ND	ND	ND	ND
N-MeFOSA	~	~	ND	ND	ND	ND	ND
N-MeFOSAA	~	~	ND	ND	ND	ND	ND
N-MeFOSE	~	~	ND	ND	ND	ND	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	~	~	ND	ND	ND	ND	ND
Perfluoro-1-decanesulfonic acid (PFDS)	~	~	ND	ND	ND	ND	ND
Perfluoro-1-heptanesulfonic acid (PFHpS)	~	~	ND	ND	ND	ND	ND
Perfluoro-1-nonanesulfonic acid (PFNS)	~	~	ND	ND	ND	ND	ND
Perfluoro-1-octanesulfonamide (FOSA)	~	~	ND	ND	ND	ND	ND
Perfluoro-1-pentanesulfonate (PFPeS)	~	~	ND	ND	ND	ND	ND
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	~	~	ND	ND	ND	ND	ND
Perfluoro-4-oxapentanoic acid (PFMPA)	~	~	ND	ND	ND	ND	ND
Perfluoro-5-oxahexanoic acid (PFMBA)	~	~	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	~	~	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	~	~	ND	ND	ND	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	~	~	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	~	~	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHpA)	~	~	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	~	~	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	~	~	ND	ND	ND	ND	ND
Perfluoro-n-butanoic acid (PFBA)	~	~	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	~	~	1.4	ND	ND	ND	1.04
Perfluorooctanesulfonic acid (PFOS)	0.88	440	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	0.66	500	9.47	0.354	0.387	ND	ND
Perfluoropentanoic acid (PFPeA)	~	~	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTA)	~	~	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	~	~	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	~	~	ND	ND	ND	ND	ND
<b>Total Solids</b>							
% Solids	~	~	86.2	89.5	83.5	88.2	84.3

**NOTES:**

Exceedances of NYSDEC Part 375-6 soil cleanup objectives (SCOs) are formatted consistent with the SCO column headers.

**Q is the Qualifier Column with definitions as follows:**

- IS-LO=The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
- ICVE=The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
- QL-Q2=This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- CAL-E=The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
- 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).
- PCB-I=PCB calculations are based upon the average response of 5 peaks for each Aroclor. For this sample an interference was present and the analyst was unable to use all 5 peaks.
- J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
- B=analyte found in the analysis batch blank
- NT=this indicates the analyte was not a target for this sample
- mg/kg= milligrams per kilogram or parts per million (ppm)
- ug/kg=micrograms per kilogram or parts per billion (ppb)
- ND - analyte not detected at or above the Reporting Limit (RL) or Method Detection Limit (MDL).
- ~this indicates that no regulatory limit has been established for this analyte

**Table 2**  
 Soil Sample Laboratory Analytical Results Summary - Waste Characterization  
 700 South Street  
 City of Newburgh, New York  
 LaBealla Project No. 2222335

Sample ID	<b><u>NYSDEC Part 375</u></b> <b><u>Restricted Use Soil</u></b> <b><u>Cleanup Objective-</u></b> <b><u>Commercial</u></b>	<b>EPA Hazardous Waste</b> <b>Limits</b>	IV5_WC-01	
York ID			23K1831-01	
Sampling Date/Time			11/29/2023 12:20	
Client Matrix			Soil	
Compound			Result	Q
<b>Total Petroleum Hydrocarbons-GRO (C5-C10)</b>	mg/Kg		mg/kg	
Total Petroleum Hydrocarbons-GRO	~		616	
<b>Total Petroleum Hydrocarbons-DRO (C10-C28)</b>	mg/Kg		mg/kg	
Total Petroleum Hydrocarbons-DRO	~		1,840	
<b>VOCs, 8260 MASTER</b>	mg/Kg		mg/Kg	
1,1,1,2-Tetrachloroethane	~		ND	
1,1,1-Trichloroethane	500		5.7	
1,1,2,2-Tetrachloroethane	~		ND	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~		ND	
1,1,2-Trichloroethane	~		ND	
1,1-Dichloroethane	240		1	
1,1-Dichloroethylene	500		ND	
1,2,3-Trichlorobenzene	~		ND	
1,2,3-Trichloropropane	~		ND	
1,2,4-Trichlorobenzene	~		ND	
1,2,4-Trimethylbenzene	190		5	
1,2-Dibromo-3-chloropropane	~		ND	
1,2-Dibromoethane	~		ND	
1,2-Dichlorobenzene	500		ND	
1,2-Dichloroethane	30		0.41	J
1,2-Dichloropropane	~		ND	
1,3,5-Trimethylbenzene	190		1.4	
1,3-Dichlorobenzene	280		ND	
1,4-Dichlorobenzene	130		ND	
1,4-Dioxane	130		ND	ICVE
2-Butanone	500		ND	
2-Hexanone	~		ND	
4-Methyl-2-pentanone	~		ND	
Acetone	500		0.57	J
Acrolein	~		ND	
Acrylonitrile	~		ND	
Benzene	44		ND	
Bromochloromethane	~		ND	
Bromodichloromethane	~		ND	
Bromoform	~		ND	CCVE
Bromomethane	~		ND	
Carbon disulfide	~		ND	
Carbon tetrachloride	22		ND	
Chlorobenzene	500		ND	
Chloroethane	~		ND	
Chloroform	350		ND	
Chloromethane	~		ND	
cis-1,2-Dichloroethylene	500		23	
cis-1,3-Dichloropropylene	~		ND	
Cyclohexane	~		ND	
Dibromochloromethane	~		ND	
Dibromomethane	~		ND	
Dichlorodifluoromethane	~		ND	
Ethyl Benzene	390		8.9	
Hexachlorobutadiene	~		ND	
Isopropylbenzene	~		ND	
Methyl acetate	~		ND	
Methyl tert-butyl ether (MTBE)	500		ND	
Methylcyclohexane	~		1.4	
Methylene chloride	500		ND	
n-Butylbenzene	500		ND	
n-Propylbenzene	500		0.43	J
o-Xylene	~		9.3	
p- & m- Xylenes	~		33	
p-Isopropyltoluene	~		ND	
sec-Butylbenzene	500		ND	
Styrene	~		ND	
tert-Butyl alcohol (TBA)	~		ND	
tert-Butylbenzene	500		ND	
Tetrachloroethylene	150		82	CCVE, QL-02
Toluene	500		14	
trans-1,2-Dichloroethylene	500		ND	
trans-1,3-Dichloropropylene	~		ND	
Trichloroethylene	200		140	
Trichlorofluoromethane	~		ND	
Vinyl Chloride	13		ND	
Xylenes, Total	500		43	

**Table 2**  
Soil Sample Laboratory Analytical Results Summary - Waste Characterization  
700 South Street  
City of Newburgh, New York  
LaBealla Project No. 2222335

Sample ID	<b>NYSDEC Part 375  Restricted Use Soil  Cleanup Objective-  Commercial</b>	<b>EPA Hazardous Waste  Limits</b>	IV5_WC-01	
York ID			23K1831-01	
Sampling Date/Time			11/29/2023 12:20	
Client Matrix			Soil	
Compound			Result	Q
<b>SVOCs, 8270 MASTER</b>	mg/Kg		mg/Kg	
1,1-Biphenyl	~		ND	
1,2,4,5-Tetrachlorobenzene	~		ND	
1,2,4-Trichlorobenzene	~		ND	
1,2-Dichlorobenzene	500		ND	
1,2-Diphenylhydrazine (as Azobenzene)	~		ND	
1,3-Dichlorobenzene	280		ND	
1,4-Dichlorobenzene	130		ND	
2,3,4,6-Tetrachlorophenol	~		ND	
2,4,5-Trichlorophenol	~		ND	
2,4,6-Trichlorophenol	~		ND	
2,4-Dichlorophenol	~		ND	
2,4-Dimethylphenol	~		ND	
2,4-Dinitrophenol	~		ND	CCVE
2,4-Dinitrotoluene	~		ND	
2,6-Dinitrotoluene	~		ND	
2-Chloronaphthalene	~		ND	
2-Chlorophenol	~		ND	
2-Methylnaphthalene	~		0.53	
2-Methylphenol	500		ND	ICVE
2-Nitroaniline	~		ND	
2-Nitrophenol	~		ND	
3- & 4-Methylphenols	500		ND	
3,3-Dichlorobenzidine	~		ND	
3-Nitroaniline	~		ND	
4,6-Dinitro-2-methylphenol	~		ND	CCVE
4-Bromophenyl phenyl ether	~		ND	
4-Chloro-3-methylphenol	~		ND	
4-Chloroaniline	~		ND	
4-Chlorophenyl phenyl ether	~		ND	
4-Nitroaniline	~		ND	
4-Nitrophenol	~		ND	
Acenaphthene	500		ND	
Acenaphthylene	500		ND	
Acetophenone	~		ND	
Aniline	~		ND	
Anthracene	500		ND	
Atrazine	~		ND	
Benzaldehyde	~		ND	
Benzidine	~		ND	
Benzo(a)anthracene	5.6		ND	
Benzo(a)pyrene	1		ND	
Benzo(b)fluoranthene	5.6		ND	
Benzo(g,h,i)perylene	500		ND	
Benzo(k)fluoranthene	56		ND	
Benzoic acid	~		ND	
Benzyl alcohol	~		ND	
Benzyl butyl phthalate	~		1.6	
Bis(2-chloroethoxy)methane	~		ND	
Bis(2-chloroethyl)ether	~		ND	
Bis(2-chloroisopropyl)ether	~		ND	
Bis(2-ethylhexyl)phthalate	~		233	
Caprolactam	~		ND	
Carbazole	~		ND	
Chrysene	56		ND	
Dibenzo(a,h)anthracene	0.56		ND	
Dibenzofuran	350		ND	
Diethyl phthalate	~		ND	
Dimethyl phthalate	~		ND	
Di-n-butyl phthalate	~		494	
Di-n-octyl phthalate	~		ND	
Fluoranthene	500		0.0668	J
Fluorene	500		0.0483	J
Hexachlorobenzene	6		ND	
Hexachlorobutadiene	~		ND	
Hexachlorocyclopentadiene	~		ND	CCVE, ICVE
Hexachloroethane	~		ND	
Indeno(1,2,3-cd)pyrene	5.6		ND	
Isophorone	~		ND	
Naphthalene	500		0.19	
Nitrobenzene	~		ND	
N-Nitrosodimethylamine	~		ND	
N-nitroso-di-n-propylamine	~		ND	
N-Nitrosodiphenylamine	~		ND	CCVE
Pentachlorophenol	6.7		ND	
Phenanthrene	500		0.143	
Phenol	500		ND	
Pyrene	500		0.076	J
Pyridine	~		ND	ICVE



**Table 2**  
Soil Sample Laboratory Analytical Results Summary - Waste Characterization  
700 South Street  
City of Newburgh, New York  
LaBealla Project No. 2222335

Sample ID	<b><u>NYSDEC Part 375</u></b> <b><u>Restricted Use Soil</u></b> <b><u>Cleanup Objective-</u></b> <b><u>Commercial</u></b>	<b>EPA Hazardous Waste</b> <b>Limits</b>	IV5_WC-01	
York ID			23K1831-01	
Sampling Date/Time			11/29/2023 12:20	
Client Matrix			Soil	
Compound			Result	Q
<b>Volatile Organics, TCLP RCRA List</b>		mg/L	mg/L	
1,1-Dichloroethylene		0.7	ND	
1,2-Dichloroethane		0.5	0.036	J
1,4-Dichlorobenzene		7.5	ND	
2-Butanone		200	ND	
Benzene		0.5	ND	
Carbon tetrachloride		0.5	ND	
Chlorobenzene		100	ND	
Chloroform		6	ND	
Tetrachloroethylene		0.7	<b>0.92</b>	QL-02
Trichloroethylene		0.5	<b>3.9</b>	
Vinyl Chloride		0.2	ND	
<b>Semi-Volatiles, TCLP RCRA Target List</b>		mg/L	mg/L	
1,4-Dichlorobenzene		7.5	ND	
2,4,5-Trichlorophenol		400	ND	
2,4,6-Trichlorophenol		2	ND	
2,4-Dinitrotoluene		0.13	ND	
2-Methylphenol		200	ND	
3- & 4-Methylphenols		~	0.0441	
Cresols, total		200	0.0441	
Hexachlorobenzene		0.13	ND	
Hexachlorobutadiene		0.5	ND	
Hexachloroethane		3	ND	
Nitrobenzene		2	ND	
Pentachlorophenol		100	ND	
Pyridine		5	ND	
<b>Pesticides, TCLP RCRA List</b>		mg/L	mg/L	
Chlordane, total		0.03	ND	
Endrin		0.02	ND	
gamma-BHC (Lindane)		0.4	ND	
Heptachlor		0.008	ND	
Heptachlor epoxide		0.008	ND	
Methoxychlor		10	ND	
Toxaphene		0.5	ND	
<b>Metals, Target Analyte</b>	mg/Kg		mg/Kg	
Aluminum	~		10,700	
Antimony	~		36	
Arsenic	16		4.96	
Barium	400		<b>3,090</b>	
Beryllium	590		0.052	
Cadmium	9.3		<b>11.6</b>	
Calcium	~		476	
Chromium	1500		41.2	
Cobalt	~		1.08	
Copper	270		75.3	
Iron	~		19,900	
Lead	1000		241	
Magnesium	~		3,670	
Manganese	10000		330	
Mercury	2.8		<b>3.04</b>	
Nickel	310		18.5	
Potassium	~		1,150	
Selenium	1500		3.96	
Silver	1500		ND	
Sodium	~		1,040	
Thallium	~		2.41	
Vanadium	~		16.8	
Zinc	10000		96.8	
<b>Metals, TCLP RCRA</b>		mg/L	mg/L	
Arsenic		5	ND	
Barium		100	3.03	
Cadmium		1	ND	
Chromium		5	ND	
Lead		5	0.384	
Mercury		0.2	ND	
Selenium		1	ND	
Silver		5	ND	
<b>Ignitability</b>			None	
<b>Dilution Factor</b>			1	
Ignitability		~	Non-Ignit.	
<b>pH</b>			pH units	
<b>Dilution Factor</b>			1	
pH		~	4.61	

**Table 2**  
 Soil Sample Laboratory Analytical Results Summary - Waste Characterization  
 700 South Street  
 City of Newburgh, New York  
 LaBealla Project No. 2222335

Sample ID	NYSDEC Part 375 Restricted Use Soil Cleanup Objective- Commercial	EPA Hazardous Waste Limits	IV5_WC-01	
York ID			23K1831-01	
Sampling Date/Time			11/29/2023 12:20	
Client Matrix			Soil	
Compound			Result	Q
<b>Reactivity-Cyanide</b>			mg/kg	
Reactivity - Cyanide		~	Non-Reactive	
<b>Reactivity-Sulfide</b>			mg/kg	
Reactivity - Sulfide		~	24	
<b>Herbicides, TCLP Target List</b>		mg/L	mg/L	
2,4,5-TP (Silvex)		1	ND	
2,4-D		10	ND	
<b>PFAS, EPA 1633 Target List</b>	ug/kg		ug/kg	
11CL-PF3OUdS	~		ND	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	~		ND	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	~		ND	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	~		ND	
3-Perfluoroheptyl propanoic acid (FHpPA)	~		ND	
3-Perfluoropentyl propanoic acid (FPePA)	~		ND	
3-Perfluoropropyl propanoic acid (FPrPA)	~		ND	
9CL-PF3ONS	~		ND	
ADONA	~		ND	
HFPO-DA (Gen-X)	~		ND	
N-EtFOSA	~		ND	
N-EtFOSAA	~		ND	
N-EtFOSE	~		ND	
N-MeFOSA	~		ND	
N-MeFOSAA	~		ND	
N-MeFOSE	~		ND	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	~		ND	
Perfluoro-1-decanesulfonic acid (PFDS)	~		ND	
Perfluoro-1-heptanesulfonic acid (PFHpS)	~		ND	
Perfluoro-1-nonanesulfonic acid (PFNS)	~		ND	
Perfluoro-1-octanesulfonamide (FOSA)	~		ND	
Perfluoro-1-pentanesulfonate (PFPeS)	~		ND	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	~		ND	
Perfluoro-4-oxapentanoic acid (PFMPA)	~		ND	
Perfluoro-5-oxahexanoic acid (PFMBA)	~		ND	
Perfluorobutanesulfonic acid (PFBS)	~		ND	
Perfluorodecanoic acid (PFDA)	~		ND	
Perfluorododecanesulfonic acid (PFDoS)	~		ND	
Perfluorododecanoic acid (PFDoA)	~		ND	
Perfluoroheptanoic acid (PFHpA)	~		0.237	
Perfluorohexanesulfonic acid (PFHxS)	~		ND	
Perfluorohexanoic acid (PFHxA)	~		0.0905	J
Perfluoro-n-butanoic acid (PFBA)	~		ND	
Perfluorononanoic acid (PFNA)	~		ND	
Perfluorooctanesulfonic acid (PFOS)	440		ND	
Perfluorooctanoic acid (PFOA)	500		24	
Perfluoropentanoic acid (PFPeA)	~		ND	
Perfluorotetradecanoic acid (PFTA)	~		ND	
Perfluorotridecanoic acid (PFTTrDA)	~		ND	
Perfluoroundecanoic acid (PFUnA)	~		ND	
<b>Polychlorinated Biphenyls (PCB)</b>	mg/Kg		mg/Kg	
Aroclor 1016	~		ND	
Aroclor 1221	~		ND	
Aroclor 1232	~		ND	
Aroclor 1242	~		ND	
Aroclor 1248	~		0.239	P
Aroclor 1254	~		ND	
Aroclor 1260	~		ND	
Total PCBs	1		0.239	P
<b>Total Solids</b>		%	%	
<b>Dilution Factor</b>			1	
% Solids		~	86.6	

**NOTES:**

Exceedances of NYSDEC Part 375-6 Commercial Use soil cleanup objectives (CUSCOs) and EPA Hazardous Waste Limits are formatted consistent with their respective column headers.

mg/kg= milligrams per kilogram or parts per million (ppm)

mg/L- milligrams per liter

ug/kg=micrograms per kilogram or parts per billion (ppb)

ND - analyte not detected at or above the Reporting Limit (RL) or Method Detection Limit (MDL).

~this indicates that no regulatory limit has been established for this analyte

**Q is the Qualifier Column with definitions as follows:**

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

ICVE=The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).

QL-02=This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

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).

## **APPENDIX C – EXCAVATION WORK PLAN**

# EXCAVATION WORK PLAN

<b>EXCAVATION WORK PLAN.....</b>	<b>1</b>
C-1 Notification.....	2
C-2 Soil Screening Methods .....	3
C-3 Stockpile Methods.....	3
C-4 Materials Excavation and Load Out.....	4
C-5 Materials Transport Off-Site .....	4
C-6 Materials Disposal Off-Site.....	5
C-7 Materials Reuse On-Site.....	6
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## **C-1 Notification**

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the Site owner or their representative will notify the Department. Currently, this notification will be made to:

Mr. Salvatore Priore, P.E.  
Division of Environmental Remediation  
625 Broadway, 12<sup>th</sup> floor  
Albany, New York 12233-72552

Regional Hazardous Waste Remediation Engineer

NYSDEC, Region 3  
Division of Environmental Remediation  
21 South Putt Corners  
New Paltz, New York 12561

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for Site re-grading, plans for intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this Excavation Work Plan (EWP),
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120,

- A copy of the contractor's health and safety plan, in electronic format, if it differs from the HASP provided in Appendix E of this document,
- Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

## **C-2 Soil Screening Methods**

Visual, olfactory and instrument-based soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-Site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

## **C-3 Stockpile Methods**

Soil stockpiles will be continuously surrounded with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC.

#### **C-4 Materials Excavation and Load Out**

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-Site. The qualified environmental professional will be responsible for monitoring that all outbound trucks will be washed at the truck wash before leaving the Site until the activities performed under this section are complete.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-Site soil tracking.

The qualified environmental professional will be responsible for monitoring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

#### **C-5 Materials Transport Off-Site**

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

All trucks loaded with Site material will exit the site using only Owner-approved truck routes. The contractor preparing work plans for the construction proposed shall identify the most appropriate route for the scope of work to be conducted on site, taking into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the site; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. The designated truck route will be identified in the pre-excavation notification from the contractor.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-Site in an appropriate manner.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development.

Trucks will be prohibited from stopping and idling in the neighborhood outside the Site.

Queuing of trucks will be performed on-Site in order to minimize off-Site disturbance. Off-Site queuing will be prohibited.

## **C-6 Materials Disposal Off-Site**

All soil/fill/solid waste excavated and removed from the Site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this Site is proposed for unregulated off-Site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-Site management of materials from this Site will not occur without formal NYSDEC approval.



Off-Site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, (e.g. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc). Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-Site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

#### **C-7 Materials Reuse On-Site**

Chemical criteria for on-Site reuse of material have been approved by NYSDEC and are established by 6NYCRR Part 375 Table 375-6.8(b) for commercial use Sites. The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-Site. Contaminated on-Site material, including historic fill and contaminated soil, that is acceptable for re-use on-Site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines. Organic matter (woods, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

#### **C-8 Fluids Management**

All liquids to be removed from the Site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the Site, but will be managed off-Site.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

### **C-9 Cover System Restoration**

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the Final (100%) Remedial Design Report, Waste Removal and Cap (O'Brien & Gere, February 2013) and the Record of Decision. The demarcation layer, consisting of a geotextile fabric will be replaced to provide a visual reference to the top of the 'Remaining Contamination Zone', the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this Site Management Plan. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the "Remaining Contamination." A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan.

### **C-10 Backfill from Off-Site Sources**

All materials proposed for import onto the Site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the Site.

Material from industrial Sites, spill Sites, or other environmental remediation Sites or potentially contaminated Sites will not be imported to the Site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d) for commercial Sites. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC. Solid waste will not be imported onto the Site.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

### **C-11 Stormwater Pollution Prevention**

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

### **C-12 Contingency Plan**

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical

analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the Site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

### **C-13 Community Air Monitoring Plan**

Whenever intrusive activities occur in the North cap area with potential to expose remaining contamination below the Part 360 equivalent cap, community air monitoring will be conducted in accordance with Appendix 1A of DER-10, Generic Community Air Monitoring Plan.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

### **C-14 Dust Control Plan**

A dust suppression plan that addresses dust management during invasive on-Site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-Site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger Sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.

- On-Site roads will be limited in total area to minimize the area required for water truck sprinkling.

# Site-Specific Health and Safety Plan



Project Title:

**DuPont-Stauffer Landfill Site NYSDEC Site 336009**

Location:

**700 South Street, City of Newburgh, Orange County, New York**

Prepared For:

**Brookfield Properties**

**LaBella Project No. 2222335 Phase .11**

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## **ATTACHMENTS**

A – Daily Pre-Job Safety Tailgate/Toolbox Meeting Form

B – Accident/Incident/Near Miss/Hazard Report



**o.o HASP Acknowledgment**

All LaBella project personnel are required to sign the following agreement prior to conducting work:

1. I have read and fully understand the requirements of this site-specific HASP including my individual responsibilities listed above.
2. I agree to abide by the provisions of the HASP and participate in any health and safety meetings or modifications to the HASP criteria during the implementation of work.

<b>Name</b>	<b>Company</b>	<b>Date</b>

## 1.0 Introduction

The purpose of this Health and Safety Plan (HASP) is to provide guidelines for responding to potential health and safety issues that may be encountered during the Remedial Investigation (RI) at the project site, located at 700 South Street, City of Newburgh, Orange County, New York. This HASP only reflects the policies of LaBella Associates D.P.C. The requirements of this HASP are applicable to all approved LaBella personnel at the work site. This document's project specifications are to be consulted for guidance in preventing and quickly abating any threat to human safety or the environment. The provisions of the HASP do not replace or supersede any federal, state or local regulatory requirements.

## 2.0 Responsibilities

This HASP presents guidelines to minimize the risk of injury to project personnel, and to provide rapid response in the event of injury. The HASP is applicable only to activities of approved LaBella personnel and their authorized visitors specific to this project. The Project Manager shall implement the provisions of this HASP for the duration of the project. It is the responsibility of LaBella employees to follow the requirements of this HASP, and all applicable company safety procedures.

## 3.0 Daily Pre-Job Safety Meetings

Prior to the beginning of work each day the Field Supervisor/Foreman or on-site Project Manager will review upcoming daily job requirements, anticipated hazards and hazard control measures with the project team members. At this meeting information such as personal protective equipment, site conditions, emergency procedures, and other applicable topics may be addressed.

A copy of the **Daily Pre-Job Safety Tailgate/Toolbox Meeting Form** is attached to this HASP.

## 4.0 Site Information

Project Name:	DuPont-Stauffer Landfill Site NYSDEC Site 336009
LaBella Project No.:	2222335 Phase .11
Project Location:	700 South Street, City of Newburgh, Orange County, New York
Current Use of Project Location:	Vegetated property that has previously undergone remediation via removal of buried waste and impacted soil. Capped landfill is on the northern end of the Site

	and was used to consolidate non-hazardous waste from other parts of the property.
Uses of Surrounding Areas (Res Vacant Land, Commercial, etc.):	Landfills, Commercial, and Residential, Industrial
Proposed Date(s) of Field Activity - Start:	2023-11-01
Proposed Date(s) of Field Activity - End:	2023-12-29

### 5.0 Scope of Work

The proposed field work covered under this HASP includes the following:

- Soil borings to delineate area of buried waste and impacted debris that was discovered during a geotech investigation. Characterize waste for disposal, excavate and remove impacted material, backfill.

### 6.0 Emergency Information

The personnel and emergency response contacts associated with the proposed scope of work are presented below and are to be posted onsite during all field activities. The Site Safety Officer (SSO) is the primary authority for directing site operations and relaying communications under emergency conditions. During the SSO's absence, the Project Manager or Site Supervisor will lead emergency operations.

Project Personnel		
Contact	Name	Phone
LaBella Project Manager	Arlette St. Romain	518-824-1928
LaBella Site Supervisor	Branson Fields or Eric Orłowski	720-626-6362 518-928-5823
Corporate Safety Manager	Catherine Monian	845-486-1557
Site Safety Officer	Branson Fields or Eric Orłowski	720-626-6362 518-928-5823
Site Contact	NA - Site is unoccupied	NA - Site is unoccupied
Human Resources	Michelle Hoyt	
Emergency Personnel including Police and Fire Dept and Ambulance - Dial 911		
Hospital- see Hospital Route	Buffalo General Hospital	716-859-5600

<i>Section below for directions</i>		
Poison Control		800-336-6997
NYSDEC Spill Response Hotline		800-457-7362

**First Aid**

A First Aid Kit will be located in each field vehicle. The injured person may be transported to a trained medical center for further examination and treatment. The preferred transport method is a professional emergency transportation service; however, if this option is not readily available or would result in excessive delay, other transport is authorized.

Under no circumstances should an injured person transport themselves to a medical facility for treatment, no matter how minor the injury may appear.

**Incident Reporting**

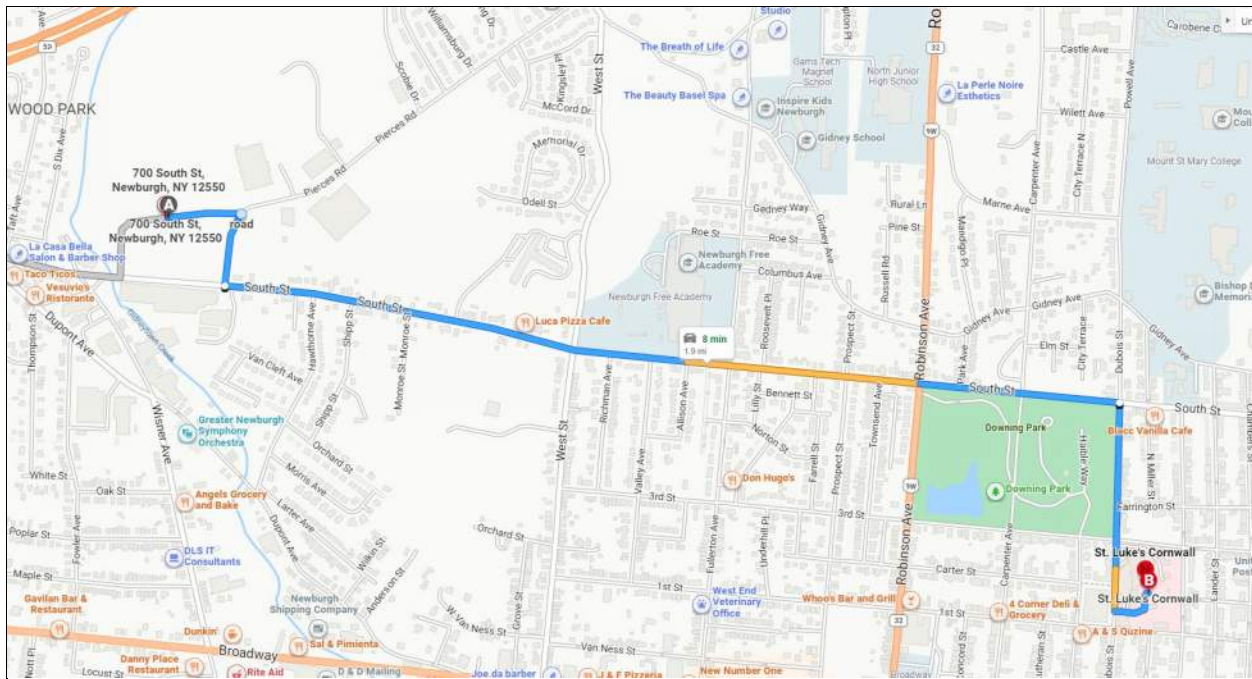
Employees shall report all incidents and injuries to their supervisor as soon as possible, including those involving employees operating vehicles and other equipment. All reporting procedures contained in LaBella Safety Policy 1.22 must be followed.

During emergencies employees should seek medical care immediately. When contacting their Supervisor/Safety Manager/HR, employees should discuss medical care options. If an employee is asked by medical personnel for a worker's compensation number they should tell them that LaBella should be billed directly.

When emergency medical care is not imminent, employees shall immediately report events to their immediate Supervisor, the Safety Manager and Human Resources, and participate in the investigation process as well as the corrective action process, as needed. The attached Accident /Incident/ Near Miss /Hazard Report Form must be submitted online or by e-mail to the Supervisor, Safety Manager and HR as soon as possible but no later than 24 hours after the event.

## Hospital Route

Hospital Directions:



[Print](#)

**A**

[700 South St, Newburgh, NY 12550](#)

Depart and head toward Pierces Rd

0.1 mi

Take Pierces Rd

0.1 mi

Turn left onto South St

1.3 mi

Turn right onto Dubois St

0.2 mi

Arrive at Dubois St

The last intersection before your destination is 3rd St

If you reach Carter St, you've gone too far

**B**

[Montefiore St. Luke's Cornwall](#)

70 Dubois St, Newburgh, NY 12550

## 7.0 Potential Health and Safety Hazards and Controls

This section lists potential health and safety hazards that project personnel may encounter at the project site and actions to be implemented by approved personnel to control and reduce the associated risk to health and safety. This is not intended to be a complete listing of any and all potential health and safety hazards. New or different hazards may be

encountered as site environmental and site work conditions change. The suggested actions to be taken under this plan are not to be substituted for good judgment on the part of project personnel. At all times, the Site Safety Officer has responsibility for site safety and their instructions must be followed.

<i>Physical Hazards</i>		
<b>Work Action or Condition</b>	<b>Potential Safety Hazard</b>	<b>Controls (including PPE)</b>
<b>Cold Weather</b>	Frost nip, Frost bite, Hypothermia	<p>Engineering: •Basic wind block • Heated shelter            • Barriers or insulation placed on metal surfaces to reduce heat loss from extremities</p> <p>Administrative: It is recommended that multiple vehicles be utilized during periods of extreme cold unless a warm shelter is within reasonable proximity to the work site. Number of vehicles depends on number of employees. Warm liquids should be considered to combat dehydration and to manage core temperatures. Note that caffeinated beverages will lessen circulation and are discouraged. Adequate Breaks - Break periods will be at least ten (10) minutes long. While on break personnel should remove outer layers of clothing to ensure adequate warming of the core and extremities. Individuals should assess their physical condition during breaks. Do not return to work in the cold until adequately warmed. If engineering controls, such as shelters are used, the ambient temperature/wind chill where the work is taking place will be used to determine the work / warm-up schedule</p> <p>Personal Protective Equipment: The outer layer of clothing must be fire retardant.</p> <ul style="list-style-type: none"> <li>• The outer most layers should consist of winter clothing (i.e. bibs, bomber or parka, head sock, winter /arctic boots).</li> <li>• Under layers (insulation) should consist of one or more thin garments. Outer winter layers should be removed prior to insulation layers becoming wet with perspiration.</li> <li>• Wet clothing should not be worn. A best practice is to bring extra insulating clothing and change clothes if they become wet.</li> </ul>

		<ul style="list-style-type: none"> <li>• PPE that is in direct contact with the skin should be changed if it becomes wet.</li> <li>• Exposed skin shall be avoided in extreme cold temperatures to minimize the risk of frostbite.</li> <li>• Hand / foot warmers are available on all sites.</li> </ul>
<b>Hand Tools</b>	Physical injury	<ul style="list-style-type: none"> <li>• Do not use a tool if you have not been trained. Inspect tool before use and do not use damaged tools.</li> <li>• Maintain tools in good condition and follow manufacturers' instructions.</li> <li>• Wear gloves, safety glasses and appropriate PPE /apparel, avoiding loose clothing; secure long hair.</li> <li>• When using a cutting tool hold its handle firmly and cut away from your body, never towards it.</li> <li>• If working on a ladder or scaffold raise and lower tools using a bucket and hand line; never carry tools in a way that prevents using both hands on a ladder (maintain three points of contact)</li> </ul>
<b>Heavy Equipment - Working Near</b>	Struck by, Caught in between, Causing an obstruction on existing roadway, Rollaway, and hearing damage.	<p>Working near heavy equipment presents struck-by and caught-in or in-between risks. Heavy equipment can also rollaway or obstruct roadways, limiting visibility. The following hazard control measures will be applied:</p> <ul style="list-style-type: none"> <li>• Maintain 360 degrees of awareness of your surroundings.</li> <li>• Meet the Operator, discuss work operations, and stay in line of sight.</li> <li>• Wear hi visibility clothing (outer layer), hard hat, safety glasses, work boots.</li> <li>• Stand in safe zone away from blind areas. Never walk in back of or to the side of heavy equipment without the operator's knowledge. Have an escape plan.</li> <li>• Stay out of the swing zone of heavy equipment such as excavators or traditional auger rigs. The swing zone is defined as an entire 360 degree circle equipment may move within as measured from a central location point.</li> <li>• Only approach drill rig after auger has stopped rotating and the operator has given the OK for you to approach to collect a sample.</li> <li>• Wear hearing protection when working near heavy or moving equipment.</li> </ul>
<b>Uneven or Wet Terrain (Slopes,</b>	Slip, Trip, Fall	<ul style="list-style-type: none"> <li>• Wear appropriate footwear for the site and conditions: steel toe or composite boots for</li> </ul>

<p><b>Leaves, Holes, etc.)</b></p>		<p>construction sites, skid-resistant, hiking boots for other field work if indicated.</p> <ul style="list-style-type: none"> <li>• Use walking stick or other object for additional support/balance and to check for animal burrows/holes.</li> <li>• Watch for trip hazards such as uneven terrain, holes, ditches, puddles (if raining) stretched wires or ropes, or other materials or pieces of equipment in path.</li> </ul>
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<i>Biological and Environmental Hazards</i>		
<p><b>Work Action or Condition</b></p>	<p><b>Potential Safety Hazard</b></p>	<p><b>Controls (including PPE)</b></p>
<p><b>Hazardous Animals</b></p>	<p>Injury from Hazardous Animals</p>	<p>Hazardous animals and insects may be encountered on rural sites. The following hazard control measures will be applied:</p> <ul style="list-style-type: none"> <li>• Apply bug repellent spray or lotion to exposed skin. If you have been prescribed medication for stings bring it with you.</li> <li>• Be cautious of walking path and foot placement to avoid places where snakes/spiders may be, (e.g., stepping over logs).</li> <li>• Stay on trails away from high grassy areas/bushes. Tuck pants into boots, wear tall boots if going through tall grass/bush.</li> <li>• For Ticks: Conduct daily tick check, wear long pants/long-sleeved shirts/hats/socks that are light in color, put hair up, carry tick removal kit.</li> <li>• For Spiders: Don't put unprotected hands inside items that might have spiders and be careful moving undisturbed piles of materials.</li> </ul> <p>Bears: make noise and use bear spray.</p> <ul style="list-style-type: none"> <li>• For Snakes: Stay away - striking distance is 1/2 to 2/3 their body length.</li> </ul>
<p><b>Hazardous Plants</b></p>	<p>Injury from Hazardous Plants</p>	<p>Hazardous plant may be encountered on rural sites. The following hazard control measures will be applied:</p> <ul style="list-style-type: none"> <li>• Create a narrow path or route when possible.</li> <li>• Wear appropriate PPE for the vegetation (i.e. leather gloves, Carhart coveralls, and face shield for vegetation that could cause cuts/punctures and/or is higher than waist level)</li> <li>• Become familiar with and avoid poisonous plants, see Safety Manual section '3.05 Plants'</li> </ul>



		<ul style="list-style-type: none"> <li>• Separate clothes from normal laundry if you've been in contact with poisonous plants.</li> <li>• Use soap/water or Technu to wash poisonous plant oils from skin.</li> </ul>
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<i>Ergonomic Hazards</i>		
<b>Work Action or Condition</b>	<b>Potential Safety Hazard</b>	<b>Controls (including PPE)</b>
<b>Lifting Heavy Objects</b>	Injury from Improper Lifting/Lifting weights that are too heavy	<ul style="list-style-type: none"> <li>• When lifting heavy objects, keep the load close to the body and use the leg muscles instead of the back muscles to perform lifting tasks.</li> <li>• Do not attempt to lift large, heavy (especially over 50-lbs), or awkwardly shaped objects without assistance from another employee or from a manual lifting devise.</li> </ul>
<b>Noise (Loud, Sustained)</b>	Hearing Damage	<ul style="list-style-type: none"> <li>• Ear protection will be worn at all times when personnel are within 20-feet of operating equipment or when noise level becomes consistently loud enough to have to raise voice to communicate with someone.</li> <li>• Hearing protection will also be worn in the vicinity of generators, concrete cutters, and any other high noise emitting equipment.</li> </ul>

<i>Chemical Hazards (General)</i>		
<b>Work Action or Condition</b>	<b>Potential Safety Hazard</b>	<b>Controls (including PPE)</b>
<b>Chemical Exposure - Heavy Metals</b>	<i>Contaminants identified in testing locations at the Site include low-level heavy metals, primarily associated with Site contamination. Heavy metal-impacted media including fill material may be</i>	<p>The presence of heavy metals in site media may be difficult to ascertain in the field. Heavy metal concentrations at this site are not anticipated to exceed PELs. The following hazard control measures will be applied, however:</p> <ul style="list-style-type: none"> <li>• Workers shall wear appropriate PPE and follow listed decontamination procedures to prevent exposures. Refer to the relevant sections of this HASP for more detail regarding PPE and decontamination procedures.</li> </ul>

	<p><i>encountered during subsurface activities at the project work site.</i></p>	
<p><b>Chemical Exposure - Pesticides</b></p>	<p><i>Contaminants identified in testing locations at the Site include organochlorine pesticides. Pesticide-impacted media may be encountered during subsurface activities at the project work site. Exposure to high concentrations of organochlorine pesticides over a short period may produce convulsions, headache, dizziness, nausea, vomiting, tremors, confusion, muscle weakness, slurred speech, salivation and sweating. Long-term exposure to organochlorine pesticides may damage the liver, kidney, central nervous system, thyroid and bladder. There is some evidence indicating that organochlorine pesticides may also cause cancer in humans. Relevant Safety Data Sheets are</i></p>	<p>The presence of pesticides in site media may be difficult to ascertain in the field. Pesticide concentrations at this site are not anticipated to exceed PELs. The following hazard control measures will be applied, however:</p> <ul style="list-style-type: none"> <li>• Workers should be wearing appropriate PPE and following listed decontamination procedures to prevent exposures. Refer to the relevant sections of this HASP for more detail regarding PPE and decontamination procedures.</li> </ul>

	<i>included as Appendix 1.</i>	
<b>Chemical Exposure - PFAS</b>	<i>Contaminants identified in testing locations at the Site include PFAS. PFAS-impacted media may be encountered during subsurface activities at the project work site. Research is still ongoing regarding the health effects of PFAS, but studies have shown that exposures to certain levels of PFAS can increase one's risk of certain cancers and create reproductive, immunological or developmental effects.</i>	<p>The presence of PFAS in site media may be difficult to ascertain in the field. PFAS concentrations at this site are not anticipated to exceed PELs. The following hazard control measures will be applied, however:</p> <ul style="list-style-type: none"> <li>• Workers should be wearing appropriate PPE and following listed decontamination procedures to prevent exposures. Refer to the relevant sections of this HASP for more detail regarding PPE and decontamination procedures.</li> </ul>
<b>Chemical Exposure - Polychlorinated Biphenyls</b>	<i>Contaminants identified in testing locations at the Site include PCBs. PCB-impacted media may be encountered during subsurface activities at the project work site. Potential human health effects of PCB exposure include cancer as well as neurological, immunological and reproductive effects. Relevant Safety Data</i>	<p>The presence of PCBs in site media may be difficult to ascertain in the field. PCB concentrations at this site are not anticipated to exceed PELs. The following hazard control measures will be applied, however:</p> <ul style="list-style-type: none"> <li>• Workers should be wearing appropriate PPE and following listed decontamination procedures to prevent exposures. Refer to the relevant sections of this HASP for more detail regarding PPE and decontamination procedures.</li> </ul>

	<p><i>Sheets are included as Appendix 1.</i></p>	
<p><b>Chemical Exposure - Semi-Volatile Organic Compounds (SVOC)</b></p>	<p><i>Contaminants identified in testing locations at the Site include SVOCs. SVOC-impacted media including fill material may be encountered during subsurface activities at the project work site.</i></p>	<p>The presence of SVOCs in site media may be detected by their odor and monitoring instrumentation. SVOC concentrations at this Site are not anticipated to exceed PELs. The following hazard control measures will be applied, however:</p> <ul style="list-style-type: none"> <li>• Workers should be wearing appropriate PPE and following listed decontamination procedures to prevent exposures. Refer to the relevant sections of this HASP for more detail regarding PPE and decontamination procedures.</li> </ul>
<p><b>Chemical Exposure - Volatile Organic Compounds (VOC)</b></p>	<p><i>Contaminants identified in testing locations at the Site include various volatile organic compounds (VOCs), primarily VOCs associated with Site contamination. Volatile organic vapors may be encountered during subsurface activities at the project work site. Inhalation of high concentrations of volatile organic vapors can cause headache, stupor, drowsiness, confusion and other health effects. Skin contact can cause irritation, chemical burn, or dermatitis. Relevant Safety Data Sheets are included as Appendix 1.</i></p>	<p>Volatile Organic Compound (VOC) gases may be emitted from a number of materials and products. The presence of organic vapors may be detected by their odor and by monitoring instrumentation and can lead to physical harm. VOC concentrations at this Site are not anticipated to exceed PELs. The following hazard control measures will be applied, however:</p> <ul style="list-style-type: none"> <li>• Workers should be wearing appropriate PPE, following listed decontamination procedures and be periodically screening the work zone to prevent against and evaluate for unexpected exposures. Refer to the relevant sections of this HASP for more detail regarding PPE, decontamination procedures and work zone screening.</li> </ul>

<p><b>Landfill Work</b></p>	<p><i>Exposure to explosive and toxic landfill gases, some of which are flammable</i></p>	<p>Landfill work presents unique challenges related to air quality. The following hazard control measures will be applied:</p> <ul style="list-style-type: none"> <li>• Adequate outdoor ventilation is expected to minimize respiratory exposure, however explosive gas issues may arise. No smoking is permitted.</li> <li>• Reduced sparking tools should be used when hammering or digging any test holes.</li> <li>• Work should proceed slowly to minimize heat content and reduce friction that could generate sparks.</li> <li>• Periodic monitoring performed for explosive gases (LEL and H<sub>2</sub>S) with a 4-gas meter. Methane is colorless and odorless.</li> <li>• If action levels are reached activity should cease and personnel should immediately evacuate the site. These action levels are: &gt;10% LEL for combustible gases, 1 ppm for hydrogen sulfide, LEL of 5% for methane, &lt;19.5% or &gt;23% (5,000 ppm) for oxygen. When work ceases employees will be directed away from the operations and the situation assessed with the Health and Safety Officer.</li> </ul>
<p><b>Sample Collection - Soil or Groundwater</b></p>	<p><i>Exposure to contaminants. Hand injury from cutting, crushing, tool or glass breakage. Back strain from lifting cooler.</i></p>	<ul style="list-style-type: none"> <li>• When collecting samples, workers will utilize nitrile gloves, safety glasses or goggles. If material being sampled potentially contains fill or other sharp material, use a stainless steel spoon (or similar) as a tool to collect the sample. Any such tools should be dedicated or properly decontaminated between samples.</li> <li>• When lifting sample coolers, workers will use proper lifting techniques and get assistance when possible, especially for containers heavier than 50 lbs.</li> </ul>
<p><b>Lead</b></p>	<p><i>Injury, illness</i></p>	<ul style="list-style-type: none"> <li>• Lead exposure, which occurs most commonly by breathing in particles, can result in long term physical illness and disability (See 4.04 LEAD SAFETY POLICY in Labella's Safety Manual for information on Exposure Controls).</li> </ul>

<i>Individual Contaminant Hazards</i>			
<b>Chemical</b>	<b>OSHA Permissible Exposure Limit (PEL)/ NIOSH Recommended Exposure Limit (REL) or Immediately dangerous to life or health air concentration values (IDLH)</b>	<b>Routes of Exposure</b>	<b>Symptoms of Overexposure</b>
Chlorobenzene (VOC)	TWA 75 ppm (350 mg/m <sup>3</sup> ) NIOSH REL/IDLH: REL: TWA 75 ppm (350 mg/m <sup>3</sup> )  IDLH: 1000 ppm	The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.	irritation eyes, skin, nose; drowsiness, incoordination; central nervous system depression; In Animals: liver, lung, kidney injury
1,2- Dichloroethylene (VOC)	TWA 200 ppm (790 mg/m <sup>3</sup> ) NIOSH REL/IDLH: TWA 200 ppm (790 mg/m <sup>3</sup> )	The substance can be absorbed into the body by inhalation of its vapour and by ingestion.	irritation eyes, respiratory system; central nervous system depression
Tetrachloroethane (VOC)	REL: TWA 10 ppm (60 mg/m <sup>3</sup> ) ST 20 ppm (120 mg/m <sup>3</sup> )	inhalation, skin absorption, ingestion, skin and/or eye contact	nausea, vomiting, abdominal pain; tremor fingers
Toluene (VOC)	TWA 200 ppm NIOSH REL/IDLH: REL: TWA 100 ppm (375 mg/m <sup>3</sup> ) IDLH: 500 ppm	The substance can be absorbed into the body by inhalation, through the skin and by ingestion.	irritation eyes, nose, throat; resp sensitization, cough, pulmonary secretions, chest pain, dyspnea (breathing difficulty); asthma
Trichloroethylene (VOC)	TWA: 50 ppm 270 mg/m <sup>3</sup> Ceiling: 200 ppm STEL: 200 ppm NIOSH REL/IDLH: IDLH: 1000 ppm	The substance can be absorbed into the body by inhalation and by ingestion.	dizziness, headaches, sleepiness, confusion, nausea, unconsciousness

Cadmium (Metal)	<b>TWA 0.005 mg/m3</b> <b>NIOSH REL/IDLH: TWA 0.5 mg/m3</b>	inhalation, ingestion	pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia
Mercury (Metal)	<b>OSHA PEL TWA 0.1 mg/m3</b> <b>NIOSH REL/IDLH: REL: Hg Vapor: TWA 0.05 mg/m3 [skin] Other: C 0.1 mg/m3 [skin]</b>  <b>IDLH: 10 mg/m3</b>	inhalation, skin absorption, ingestion, skin and/or eye contact	irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude
Lead (Metal)	<b>TWA (8-hour) 0.050 mg/m3</b> <b>NIOSH REL/IDLH: TWA 0.050 mg/m3</b>  <b>IDLH: 100 mg/m3</b>	inhalation, ingestion, skin and/or eye contact	lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension

### 8.0 Personal Protective Equipment (PPE)

All site workers will have appropriate training as identified in Section 7.0. Training includes the identification of PPE necessary for various tasks; how to don, doff, adjust, and wear PPE; limitations of PPE; and proper care, inspection, testing, maintenance, useful life, storage, and disposal of the PPE. PPE will be inspected on a regular basis.

Modified Level D: Assigned protection includes:	<ul style="list-style-type: none"> <li>- Street clothes</li> <li>- Safety glasses</li> <li>- Safety toed boots</li> <li>- Hard hat</li> <li>- An ANSI Level III safety vest</li> <li>- Nitrile glove if potentially contacting any contaminated materials</li> <li>- Disposable N95 masks will be provided for use if needed</li> </ul>
---	---

## **9.0 Employee Training**

All workers and other personnel shall receive appropriate training prior to engaging in site activities. All workers must recognize and understand the potential hazards to health and safety that are associated with the proposed scope of work and must be thoroughly familiar with programs and procedures contained in this Safety Plan.

The following training levels were determined to be needed:

- 40-Hour HAZWOPER and up-to-date refreshers

## **10.0 Exposure Monitoring**

CAMP will be performed. See Work Plan.

## **11.0 Site Control**

*Project work zones will be subdivided into exclusion zone and contaminant reduction zone if warranted by site conditions.*

*The exclusion zone is where contamination is present or may be present. The contamination reduction zone is located immediately outside of the exclusion zone and is utilized for decontamination. All personnel must enter and exit the exclusion zone through the contaminant reduction zone.*

*All equipment and PPE in the exclusion zone must be decontaminated or properly discarded upon exit. Because of the nature of the site work, the exclusion and contaminant reduction zones may change. Plastic bags containing used PPE will be placed in designated trash receptacles.*

## **12.0 Recordkeeping**

An electronic or hardcopy version of this HASP will be present at the Site during all field work activities. Copies of field logs, including daily pre-job safety meeting logs, will be filed by LaBella and available for the duration of the project.

Employees will be able to provide physical or electronic copies of required training certificates.

Incident reporting will be completed in accordance with LaBella policies.



## 6.08 PRE-JOB SAFETY TAILGATE/TOOLBOX MEETING FORM

Date		Time	
Location or Address		Temperature	
Project Number		Humidity	
Conducted by		Conditions	
Were all workers reminded that COVID is still prevalent and that appropriate measures should be taking to prevent infection of themselves and others?			Yes <input type="checkbox"/> No <input type="checkbox"/>

<b>911</b>	<b>If 911 is unavailable at this location, please state the procedure for reporting emergencies</b> _____
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List Safety Topic of Discussion and/or Any Specific Hazards for the Work Being Performed Today	
1	
2	
3	
4	
5	
6	
7	

List Control Measures for Each Specific Hazard Listed Above	
1	
2	
3	
4	
5	
6	
7	

### PLEASE SIGN THE BACK OF THIS SHEET

The presenter and all attendees shall print and sign in the appropriate areas on the back of this sheet



By signing, you declare that you understand the information presented in today's meeting, and that you have had the opportunity to ask questions and to clarify any uncertainty regarding such information.

**All Visitors and Contractors Must Print Their Company Name**

Name	Signature	Company

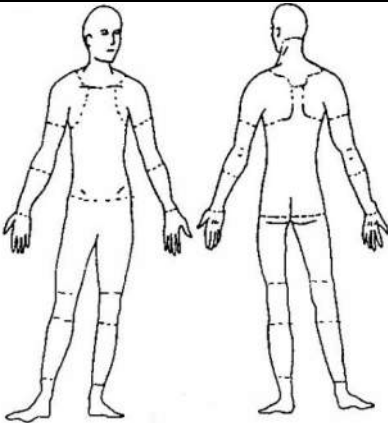


## PART A – INCIDENT/LOSS MANAGEMENT REPORTING SCHEDULE

Event	Form(s) Required	Action
<p><b>Property damage</b> to company property (including Fleet vehicles)</p> <p><b>OR</b></p> <p>Damage to non-company property by company employee</p>	<p>All cases: LaBella's Online Incident/Near-Miss/Hazard Reporting Form ("Online Reporting Form") <b>or</b> Part B- Incident/Near-Miss Hazard Report ("Part B: Employee Rpt.") from the Safety Manual 6.01 Incident/Near Miss/Hazard Report Package. Include photos.</p> <p>Losses greater than \$5,000:                      Online Reporting Form or Part B: Employee Rpt.                      Part C: Supervisor Invest./Analysis Report                      Part D: Witness Statement Form                      Photos, Diagrams, Maps, etc.</p> <p>**In addition to insurance forms</p>	<p>Immediate verbal notification to Supervisor and Online Reporting Form within 24 hours</p> <p>Send Parts B, C and D to Safety Manager as soon as possible but within 2-4 business days.</p>
<p><b>Near Miss Incidents:</b></p> <p>Low* potential for significant injury or property damage</p> <p>Moderate* or High* potential for significant injury or property damage</p> <p>*Category to be determined by Safety Manager</p>	<p>All cases: Online Reporting Form or Part B: Employee Report</p> <p>Online Reporting Form or Part B: Employee Rpt.</p> <p>Online Reporting Form/Part B: Employee Rpt.                      Part C: Supervisor Invest. &amp; Analysis Report                      Part D: Witness Statement Form                      Photos, Diagrams, Maps, etc.</p>	<p>Same-day verbal notification to Supervisor</p> <p>Send to Safety Manager and HR within 24 hours.</p> <p>Send Parts C and D to Safety Manager as soon as possible but within 2-4 business days.</p>
<p><b>Employee Injury or Illness:</b></p> <p>Minor injury (first aid treatment/non-OSHA recordable)</p> <p>Serious Injury (employee received medical treatment/lost days away from work, or required job restriction or transfer)</p> <p>Catastrophes (examples: fatality, multiple persons injured)</p>	<p>All cases: Online Reporting Form or Part B – Employee Report</p> <p>Online Reporting Form or Part B: Employee Rpt.</p> <p>Online Reporting Form or Part B: Employee Rpt.                      Part C: Supervisor Invest. &amp; Analysis Report                      Part D: Witness Statement Form                      Photos, Diagrams, Maps, etc.</p> <p>Above documentation plus additional documentation as requested Health and Safety Manager or Senior Management</p> <p>**In addition to insurance forms</p>	<p>Immediate verbal notification to Supervisor and/or Field Supervisor (in all cases).</p> <p>Send to Safety Manager and HR within 24 hours.</p> <p>Send Parts C and D to Safety Manager as soon as possible but within 2-4 business days.</p> <p>IMMEDIATELY call Safety Manager and Vice President of Operations (24/7).</p>
<p><b>Incidents Involving Personnel Other than LaBella</b> (example: subcontractors)</p>	<p>Part C: Supervisor Invest. &amp; Analysis Report                      Part D: Witness Statement Form                      Photos, Diagrams, Maps, etc.</p>	<p>Same verbal reporting requirements as employees.</p>



## PART B - INCIDENT / NEAR MISS / HAZARD REPORT

<b>Completed by Employee with Supervisor</b> <b>Complete all fields. Be as specific as possible and include drawings, photos, additional narrative, as needed.</b>			
Person Submitting Form:	Name of Affected Employee:	Employee's Supervisor:	
Employee's Division Director:	Employee's Home Office Location:	Date of Hire:	
<p><b>-An incident</b> is an unwanted event that causes injury or illness to the body and/or involves damage to property, equipment, or the environment.</p> <p><b>-A near-miss</b> is an incident in which no property was damaged and no personal injury was sustained, but where given a slight shift in time or position, damage or injury easily could have occurred.</p> <p><b>-A hazard</b> is an object or situation that has the potential to harm people or cause damage to property or the environment.</p> <p>If you have IT equipment that has been stolen or damaged, you must complete the <b>IT Incident Report</b> located on the Information Technology page of the intranet immediately for security purposes.</p>			
Date of Event	Time of Event:	Type of Incident: <input type="checkbox"/> Incident <input type="checkbox"/> Near Miss <input type="checkbox"/> Hazard	Project Number:
Address of Incident:	Additional information Regarding Incident Location:		
How did the incident happen? <i>(Describe step by step the events that led up to the event and site conditions, weather and tools. Document any immediate action taken to protect internal/internal staff)</i>			
Incident involved the following (check all that apply): <input type="checkbox"/> Vehicles    If Yes, list license Plate Numbers: _____ <input type="checkbox"/> Machines <input type="checkbox"/> Equipment <input type="checkbox"/> Tools <input type="checkbox"/> Property <input type="checkbox"/> Environment <input type="checkbox"/> Chemicals <input type="checkbox"/> Electronic Equipment <input type="checkbox"/> Wildlife			
Describe how items above played a part in the incident and if they contributed to/resulted in injury:			
Did property or equipment damage occur: <input type="checkbox"/> Yes <input type="checkbox"/> No		Approximate estimated value of damage:	
Names of all involved persons:		Witness Statements Attached (1 for each witness)(see Safety Manual 1.22): <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Did this Incident involve an injury?    <input type="checkbox"/> Yes    <input type="checkbox"/> No    If No – sign at bottom and provide to Supervisor, Safety Manager and HR.</b>			
Injured Employee Name:	SSN: (last 4 digits)	Date of Birth:	Gender:
Job Title:	Employee type: <input type="checkbox"/> Full time <input type="checkbox"/> Part Time <input type="checkbox"/> On-Call/temporary	Time Employee Began Work & Time of Injury:	Phone Number:
Type of Injury (e.g. abrasion, bruise, burn, sprain, cut, etc):		Was PPE being used & what type:	
Was medical treatment provided? <input type="checkbox"/> Yes <input type="checkbox"/> No Was medicine prescribed? <input type="checkbox"/> Yes <input type="checkbox"/> No    Type:		<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">                     Part of body affected:                      Shade all that apply or list:                 </div> </div>	
Describe treatment:			
Hospital/Clinic & Dr Name:	Is employee still being treated? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Has employee returned to work? <input type="checkbox"/> Yes <input type="checkbox"/> No	Was employee assigned: <input type="checkbox"/> Restricted duty <input type="checkbox"/> Job transfer <input type="checkbox"/> Days away from work		
Employee Name (print):		Signature:	Date:
Supervisor Name (print):		Signature:	Date:



## PART C - SUPERVISOR INVESTIGATION & ANALYSIS REPORT

<b>Completed by Supervisor with Input by Safety Manager and Others as Needed</b>			
Date of Event	Time of Event:	Type of Event: <input type="checkbox"/> Incident <input type="checkbox"/> Near Miss <input type="checkbox"/> Hazard	Date of this Report:
Event Location:	Project Number:	Supervisor:	Title:
Description of Incident:			
Incident involved the following (check all that apply): <input type="checkbox"/> Vehicles If Yes, list license Plate Numbers: _____ <input type="checkbox"/> Machines <input type="checkbox"/> Equipment <input type="checkbox"/> Tools <input type="checkbox"/> Property <input type="checkbox"/> Environment <input type="checkbox"/> Chemicals <input type="checkbox"/> Electronic Equipment <input type="checkbox"/> Wildlife			
EMPLOYEE & INJURY INFORMATION			
Involved Employee:	Employee Age:	Employee Gender:	Date of Hire:
Was employee injured: <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, describe injury:		
Date last worked:	Date returned to work:	Was employee assigned: <input type="checkbox"/> Restricted duty <input type="checkbox"/> Job transfer <input type="checkbox"/> Days away from work	
Hospital/Clinic Name:	Doctor name:	Type of Injury:	
INVOLVED PARTIES and WITNESSES			
Names of all involved persons:	Witnesses (name and contact information):	Witness Statements Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	
PROPERTY DAMAGE			
Did property damage occur? <input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, what is nature of damage and what inflicted the damage:		
Cost to repair damage:	Repercussions from damage:		
INCIDENT DESCRIPTION			
Describe what happened. (Investigate scene of incident or conditions. Describe who was involved, when and where the incident happened, what happened, and how.) Attach photographs, maps, drawings.			
What PPE was being used at the time of the event and was it appropriate?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Is there a task that applies to the <b>task</b> being performed when the injury or incident occurred? <i>If Yes, review the THA, answer the following questions, and attach a copy to this report. If no, please explain why the THA was not required for the task.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Were hazards sufficiently identified? If not, please explain.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Were identified controls adequate and implemented? If not, please explain.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Were the identified controls not implemented? If not, please explain.	<input type="checkbox"/> Yes <input type="checkbox"/> No		



## PART C - SUPERVISOR INVESTIGATION & ANALYSIS REPORT

<b>Root Cause</b> (What was the root cause of the incident, i.e., actually caused the illness, injury, or incident?)		
<b>Unsafe Acts</b>	<b>Unsafe Conditions</b>	<b>Management System Deficiencies</b>
<input type="checkbox"/> Improper Work Technique	<input type="checkbox"/> Poor Workstation Design or Layout	<input type="checkbox"/> Lack of Written Procedures or Safety Rules
<input type="checkbox"/> Improper PPE, Not Used or Used Incorrectly	<input type="checkbox"/> Fire or Explosion Hazard	<input type="checkbox"/> Safety Rules Not Enforced
<input type="checkbox"/> Safety Rule Violation	<input type="checkbox"/> Congested Work Area	<input type="checkbox"/> Hazards Not Identified
<input type="checkbox"/> Operating Without Authorization	<input type="checkbox"/> Hazardous Substances	<input type="checkbox"/> PPE Unavailable
<input type="checkbox"/> Failure to Warn or Secure	<input type="checkbox"/> Inadequate Ventilation	<input type="checkbox"/> Insufficient Worker Training
<input type="checkbox"/> Operating at Improper Speeds	<input type="checkbox"/> Improper Material Storage	<input type="checkbox"/> Insufficient Supervisor Training
<input type="checkbox"/> By-Passing Safety Devices	<input type="checkbox"/> Improper Tool or Equipment	<input type="checkbox"/> Improper Maintenance
<input type="checkbox"/> Guards Not Used	<input type="checkbox"/> Insufficient Job Knowledge	<input type="checkbox"/> Inadequate Supervision
<input type="checkbox"/> Improper Loading or Placement	<input type="checkbox"/> Slippery Conditions	<input type="checkbox"/> Insufficient Job Planning
<input type="checkbox"/> Improper Lifting	<input type="checkbox"/> Poor Housekeeping	<input type="checkbox"/> Inadequate Hiring Practices
<input type="checkbox"/> Servicing or Adjusting Machinery in Motion	<input type="checkbox"/> Excessive Noise	<input type="checkbox"/> Poor Process Design
<input type="checkbox"/> Horseplay	<input type="checkbox"/> Inadequate Guarding of Hazards	<input type="checkbox"/> Inadequate Workplace Inspections
<input type="checkbox"/> Drug or Alcohol Use	<input type="checkbox"/> Defective Tools/Equipment	<input type="checkbox"/> Inadequate Equipment
<input type="checkbox"/> Unsafe Act(s) of Others	<input type="checkbox"/> Insufficient Lighting	<input type="checkbox"/> Unsafe Design or Construction
<input type="checkbox"/> Unnecessary Haste	<input type="checkbox"/> Inadequate Fall Protection	<input type="checkbox"/> Unrealistic Scheduling
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:

**Contributing Cause(s)** (Conditions that made the incident more likely)

--

**Immediate Actions Taken**

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**Actions to Prevent Recurrence** (Be specific as to what would prevent injury, incident or damage from recurrence) (use extra page if needed)

--

**CORRECTIVE ACTION TRACKING (All Blocks Must be Filled In and Information Verifiable)**

List action(s) that have or will be taken to prevent a recurrence.	Assigned To Whom	Scheduled Completion Date	Actual Completion Date	Follow-up Date

**INVESTIGATOR SIGNATURES:**

Signature:	Name;	Title;	Date;
Signature:	Name;	Title;	Date;
Signature:	Name;	Title;	Date;
Signature:	Name;	Title;	Date;
Signature:	Name;	Title;	Date;



**PART D – WITNESS STATEMENT FORM**

Date of Incident: \_\_\_\_\_ Date of this Statement: \_\_\_\_\_

Name of Witness: \_\_\_\_\_

Name of Interviewer: \_\_\_\_\_

**Instructions:** Witness statements should be fact based and when possible written by the witness. If the interviewer writes the statement for the witness, the witness must review the statement completely before signing this form. Deletions must be lined out and initialed by the witness. All changes must be initialed by the witness.

**Statement:**

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Witness Signature & Date: \_\_\_\_\_

Interviewer Signature & Date: \_\_\_\_\_

\*Note. If the Witness refuses to sign this form, the interviewer should print "refused to sign" and the date on the Witness Signature line.





4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-01  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: 5-feet east of TP-1 center	TIME: 8:00
DRILLER: AA, KA	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				18" Brown, silty sand (fine to medium) with gravel (fine); NOSOI	0.0	
1				12" Same as above; hydrocarbon odor	0.0	
2	42/60	No.01 0-5-ft bgs	SM	6" Cobble	3.0	
3				6" Brown, silty sand (fine to coarse) with gravel (fine) and cobble; hydrocarbon odor	2.7	
4					1.5	End Point Soil Sample: B-01 (4-6-ft bgs) 8:20
5				50" Same as above. Moist at 9.5'	4.0	
6					2.7	
7	50/54	No.02 5-9.5-ft bgs	SM		1.9	
8					1.5	
9					1.8	
10				Bedrock refusal at 9.5-ft bgs		
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	9.5	NA	

**GENERAL NOTES**

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface	and = 35 - 50%	C = Coarse	R = Rounded
NA = Not Applicable	some = 20 - 35%	M = Medium	A = Angular
NOSOI = no obvious signs of impacts	little = 10 - 20%	F = Fine	SR = Subrounded
	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-01





4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-02  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: 1-foot west of TP-1 limits	TIME: 8:25
DRILLER: AA, KA	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				12" Brown, silty sand (fine to coarse), some gravel (fine), NOSOI	0.0	
1				12" Brown/ grey/black, trash/debris (foam, plastic, wood), silty sand (fine-coarse) with gravel (fine); staining, odor	0.0	
2	36/60	No.01 0-5-ft bgs	SM		27.0	
3				12" Brown/Gray, silty sands (fine to coarse), little gravel (fine) and cobble, odor, no debris	178	
4					27.1	
5				36" Same as above	49.1	
6	36/36	No.02 5-8-ft bgs	SM		37.4	End Point Soil Sample: B-02 (6-8-ft bgs) 8:45
7					38.0	
8				Bedrock refusal at 8-ft bgs		
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19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES: Advanced additional soil boring 6 inch off-set for soil volume required for WC sample
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	8.0	NA	

**GENERAL NOTES**

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface	and = 35 - 50%	C = Coarse	R = Rounded
NA = Not Applicable	some = 20 - 35%	M = Medium	A = Angular
NOSOI = no obvious signs of impacts	little = 10 - 20%	F = Fine	SR = Subrounded
	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-02



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-03  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: 5-feet west of TP-1 limits	TIME: 8:50
DRILLER: AA, KA	GROUND SURFACE ELEVATION NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0	60/60	No.01 0-5-ft bgs	SM	60" Brown, silty sand (fine to coarse) with gravel (fine) and cobble, slight hydrocarbon	0.0	
1					1.5	
2					3.0	
3					1.0	
4					0.5	
5	24/24	No.02 5-7-ft bgs	SM	18" Brown, silty sand (medium to coarse), little gravel (fine), NOSOI	0.0	End Point Soil Sample: B-03 (5-7-ft bgs) 9:15
6				6" Brown, silty sand (fine); moist, NOSOI	0.0	
7				Bedrock refusal at 7-ft bgs		
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19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	7.0	NA	

**GENERAL NOTES**

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-03



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-04  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: 6-feet south of B-02	TIME: 9:15
DRILLER: AA, KA	GROUND SURFACE ELEVATION NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				32" Brown/gray, silty gravel (fine) with sand (fine to coarse), no debris, NOSOI	0.0	
1					0.0	
2	60/60	No.01 0-5-ft bgs	SM	28" Brown, silty sand (fine to coarse) with gravel (fine) and cobble; no debris, moist, NOSOI	0.1	
3					0.0	
4					0.1	
5					24" Same as above.	0.0
6	24/24	No.02 5-7-ft bgs	SM		0.1	
7				Bedrock refusal at 7-ft bgs		
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19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	7.0	NA	

**GENERAL NOTES**

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-04



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-05  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: 5-feet north of B-02	TIME: 9:40
DRILLER: AA, KA	GROUND SURFACE ELEVATION NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				26" Brown/gray, silty gravel (fine to coarse) with sand (fine to medium), no debris, NOSOI	0.0	
1					0.0	
2	60/60	No.01 0-5-ft bgs	SM	34" Brown, silty sand (fine to coarse) with gravel (fine), no debris, NOSOI, moist at 4-ft bgs	0.0	
3					0.0	
4					0.0	
5				20" Same as above, NOSOI	0.0	End Point Soil Sample:
6	20/20	No.02 5-7-ft bgs	SM		0.0	B-05 (5-7-ft bgs) 10:00
7				Refusal at 7-ft bgs		
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18						
19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	7.0	NA	

**GENERAL NOTES**

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-05



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
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700 South Street, City of Newburgh, NY

**BORING:** B-06  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: Split B-05/B-01. 5-ft step from B-02 to the southeast	TIME: 10:10
DRILLER: AA, KA	GROUND SURFACE ELEVATION NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				14" Brown, silty sand (fine) with gravel (fine), no debris, NOSOI	0.0	No soil sample collected
1				8" cobble	0.0	
2	50/60	No.01 0-5-ft bgs	SM	28" Brown, silty sand (fine) with gravel (fine to coarse); no debris, NOSOI	0.0	
3					0.0	
4					0.0	
5				36" Same as above. Moist at 7-ft bgs, NOSOI	0.0	
6	36/36	No.02 5-8-ft bgs	SM		0.0	
7					0.0	
8				Bedrock refusal at 8-ft bgs		
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WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	8.0	NA	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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BGS = Below Ground Surface	and = 35 - 50%	C = Coarse	R = Rounded
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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-06



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-07  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: Split B-03/B-04. 5-ft southwest of B-02	TIME: 10:35
DRILLER: AA, KA	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				52" Brown, gray, mostly gravel (fine) with silt and sand (fine to coarse), no debris, NOSOI	0.0	No soil sample collected
1					0.0	
2	52/60	No.01 0-5-ft bgs	SM		0.0	
3					0.0	
4					0.0	
5	12/12	No.02 5-6-ft bgs	SM	12" Same as above, NOSOI	0.0	
6				Bedrock refusal at 6-ft bgs		
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8						
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10						
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19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	6.0	NA	

**GENERAL NOTES**

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-07



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-08  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: 5-ft northeast of TP-1	TIME: 11:00
DRILLER: AA, KA	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				36" Brown, silty sand (fine) with gravel (fine), no debris, NOSOI	0.0	No soil sample collected
1					0.0	
2	48/60	No.01 0-5-ft bgs	SM		0.1	
3				12" Brown/gray, silty sand (fine) with gravel (fine), no debris, slight odor.	0.7	
4					0.9	
5				36" Same as above. Moist at 8-ft bgs, slight odor	0.5	
6	36/48	No.02 5-9-ft bgs	SM		0.4	
7					0.6	
8					0.9	
9				Bedrock refusal at 9-ft bgs		
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20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	9.0	NA	

**GENERAL NOTES**

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-08



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-09  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:** MO, ASR  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: Utility trench	TIME: 11:20
DRILLER: AA, KA	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				40" Brown, silty sand (fine to medium) with gravel; no debris NOSOI	0.0	No soil sample collected
1					0.0	
2	40/60	No.01 0-5-ft bgs	SM		0.0	
3					0.0	
4					0.0	
5				12" Same as above, NOSOI	0.0	
6				10" Cobble	0.0	
7	50/60	No.02 5-10-ft bgs	SM	26" Brown, silty sand (fine with gravel (fine)); Moist at 8-ft bgs, no debris, NOSOI	0.0	
8					0.0	
9					0.0	
10				12" Same as above, NOSOI	0.0	
11	24/30	No.03 10-12.5-ft bgs	SM	12" Same as above, wet, NOSOI	0.0	
12					0.0	
13				Bedrock refusal at 12.5-ft bgs		
14						
15						
16						
17						
18						
19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	12.5	NA	

**GENERAL NOTES**

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NA = Not Applicable	some = 20 - 35%	M = Medium	A = Angular
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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-09





4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-10  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:**  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: Utility trench	TIME: 11:45
DRILLER: AA, KA	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				38" Brown, silty sand (fine to medium) with gravel (fine); no debris, NOSOI	0.0	No soil sample collected
1					0.0	
2	38/60	No.01 0-5-ft bgs	SM		0.0	
3					0.0	
4					0.0	
5				32" Same as above. Moist, NOSOI	0.0	
6					0.0	
7	44/48	No.02 5-9-ft bgs	SM		0.0	
8				12" Same as above. Wet	0.0	
9				Bedrock refusal at 9-ft bgs		
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WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	9.0	NA	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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**BORING:** B-10



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
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700 South Street, City of Newburgh, NY

**BORING:** B-11  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:**  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: Utility trench	TIME: 12:10
DRILLER: AA, KA	GROUND SURFACE ELEVATION NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				24" Brown, silty sand (fine to coarse) with gravel (fine), no debris, NOSOI	0.0	No soil sample collected
1					0.0	
2	38/60	No.01 0-5-ft bgs	SM	14" Mostly gravel (fine to coarse) with silty sand (fine), no debris, NOSOI	0.0	
3					0.0	
4					0.0	
5	12/12	No.02 5-6-ft bgs	SM	12" Same as above	0.0	
6				Bedrock refusal at 6-ft bgs		
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18						
19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
-	-	-	NA	6.0	NA	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-11



4 British American Blvd., Latham, New York  
Soil Boring Log

**PROJECT**

Impacted Soil Delineation  
IV5 Newburgh South Logistics Center LLC  
DuPont Stauffer Landfill Site  
NYSDEC Site No. 3-36-009  
700 South Street, City of Newburgh, NY

**BORING:** B-12  
**SHEET:** 1 of 1  
**JOB:** 2222335.11  
**CHKD BY:**  
**DATE:** 11/29/2023

CONTRACTOR: LaBella	BORING LOCATION: Utility trench	TIME: 12:30
DRILLER: AA, KA	GROUND SURFACE ELEVATION NA	DATUM: NA
LABELLA REPRESENTATIVE: Branson Fields	START DATE: 11/29/23	END DATE: 11/29/2023
		WEATHER: Mostly Sunny, 30s

TYPE OF DRILL RIG: Geoprobe 6610 DT	DRIVE SAMPLER TYPE: MacroCore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: 1.5"
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH (FEET BGS)	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE RECOVERY (INCHES)	SAMPLE NO. AND DEPTH	STRATA CHANGE (FEET BGS)			
0				48" Brown, silty sand (fine to coarse) with gravel, moist at 3.5-ft bgs, no debris NOSOI,	0.0	No soil sample collected
1	48/48	No.01 0-4-ft bgs	SM		0.0	
2					0.0	
3					0.0	
4						
5				Refusal at 4-ft bgs		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
					NA	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface	and = 35 - 50%	C = Coarse	R = Rounded
NA = Not Applicable	some = 20 - 35%	M = Medium	A = Angular
NOSOI = no obvious signs of impacts	little = 10 - 20%	F = Fine	SR = Subrounded
	trace = 1 - 10%	VF = Very Fine	SA = Subangular

**BORING:** B-12



# Technical Report

prepared for:

**LaBella Associates (Poughkeepsie)**

21 Fox Street

Poughkeepsie NY, 12601

**Attention: Branson Fields**

Report Date: 12/08/2023

**Client Project ID: 2222335 IV5-Brookfield Newburgh**

York Project (SDG) No.: 23K1831

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  
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RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 12/08/2023  
Client Project ID: 2222335 IV5-Brookfield Newburgh  
York Project (SDG) No.: 23K1831

**LaBella Associates (Poughkeepsie)**  
21 Fox Street  
Poughkeepsie NY, 12601  
Attention: Branson Fields

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## 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 30, 2023 and listed below. The project was identified as your project: **2222335 IV5-Brookfield Newburgh**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23K1831-01	IV5_WC-01	Soil	11/29/2023	11/30/2023
23K1831-02	IV5_WC_FB	Water	11/29/2023	11/30/2023
23K1831-03	Trip Blank	Water	11/29/2023	11/30/2023

## **General Notes for York Project (SDG) No.: 23K1831**

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:** 12/08/2023

Cassie L. Mosher  
Laboratory Manager





### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1831	2222335 IV5-Brookfield Newburgh	Soil	November 29, 2023 12:20 pm	11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>5.7</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-34-3	<b>1,1-Dichloroethane</b>	<b>1.0</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	12/06/2023 09:00	12/06/2023 15:33	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>5.0</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.41</b>	J	mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>1.4</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	5.2	10	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
67-64-1	<b>Acetone</b>	<b>0.57</b>	J	mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
107-02-8	Acrolein	ND		mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
71-43-2	Benzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-25-2	Bromoform	ND	CCVE	mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
67-66-3	Chloroform	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>23</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
100-41-4	<b>Ethyl Benzene</b>	<b>8.9</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS





### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
108-87-2	<b>Methylcyclohexane</b>	<b>1.4</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
103-65-1	<b>n-Propylbenzene</b>	<b>0.43</b>	J	mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
95-47-6	<b>o-Xylene</b>	<b>9.3</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	12/06/2023 09:00	12/06/2023 15:33	SS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>33</b>		mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	12/06/2023 09:00	12/06/2023 15:33	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
100-42-5	Styrene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>82</b>	CCVE, QL-02	mg/kg dry	0.58	1.2	200	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/07/2023 09:00	12/07/2023 13:21	SS
108-88-3	<b>Toluene</b>	<b>14</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-01-6	<b>Trichloroethylene</b>	<b>140</b>		mg/kg dry	1.4	2.9	500	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/08/2023 09:00	12/08/2023 11:52	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
1330-20-7	<b>Xylenes, Total</b>	<b>43</b>		mg/kg dry	0.78	1.6	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS

Surrogate Recoveries

Result

Acceptance Range



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 12:20 pm	<u>Date Received</u> 11/30/2023
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**Volatile Organics, 8260 Comprehensive**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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: SURRE: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	98.8 %			76-130						

**Volatile Organics, TCLP RCRA List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

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		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.036</b>	J	mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
78-93-3	2-Butanone	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
71-43-2	Benzene	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
56-23-5	Carbon tetrachloride	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
108-90-7	Chlorobenzene	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
67-66-3	Chloroform	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.92</b>	QL-02	mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
79-01-6	<b>Trichloroethylene</b>	<b>3.9</b>		mg/L	0.12	0.25	50	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/06/2023 12:30	12/06/2023 22:45	SS
75-01-4	Vinyl Chloride	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	99.0 %			77-125						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %			76-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	106 %			85-120						

**Semi-Volatiles, TCLP RCRA Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

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		mg/L	0.00645	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:17	12/05/2023 00:37	KH



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semi-Volatiles, TCLP RCRA Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00722	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00654	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00473	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00171	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
65794-96-9	<b>3- &amp; 4-Methylphenols</b>	<b>0.0441</b>		mg/L	0.00743	0.0200	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
1319-77-3	<b>Cresols, total</b>	<b>0.0441</b>		mg/L	0.00740	0.0300	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854	12/03/2023 07:17	12/05/2023 00:37	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00591	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00662	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00726	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00393	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00753	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
110-86-1	Pyridine	ND		mg/L	0.00637	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	52.6 %	10-90.9
13127-88-3	Surrogate: SURR: Phenol-d6	38.1 %	10-69.2
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	78.3 %	19.2-141
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.6 %	24.8-127
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	105 %	23-163
1718-51-0	Surrogate: SURR: Terphenyl-d14	94.6 %	25.8-110

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
51-28-5	2,4-Dinitrophenol	ND	CCVE	mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-57-6	<b>2-Methylnaphthalene</b>	<b>0.530</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
95-48-7	2-Methylphenol	ND	ICVE	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CCVE	mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
62-53-3	Aniline	ND		mg/kg dry	0.192	0.384	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
92-87-5	Benzidine	ND		mg/kg dry	0.192	0.384	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
85-68-7	<b>Benzyl butyl phthalate</b>	<b>1.60</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

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23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>233</b>		mg/kg dry	4.81	9.60	200	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/05/2023 17:00	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
84-74-2	<b>Di-n-butyl phthalate</b>	<b>494</b>		mg/kg dry	12.0	24.0	500	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/06/2023 01:47	KH-
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
206-44-0	<b>Fluoranthene</b>	<b>0.0668</b>	J	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/04/2023 23:58	KH
86-73-7	<b>Fluorene</b>	<b>0.0483</b>	J	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-20-3	<b>Naphthalene</b>	<b>0.190</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/04/2023 23:58	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
86-30-6	N-Nitrosodiphenylamine	ND	CCVE	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH





### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

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**Date Received**

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
85-01-8	<b>Phenanthrene</b>	<b>0.143</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
108-95-2	Phenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
129-00-0	<b>Pyrene</b>	<b>0.0760</b>	J	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.192	0.384	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	60.4 %	20-108								
13127-88-3	Surrogate: SURR: Phenol-d6	64.0 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	66.2 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	57.1 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	55.6 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	61.2 %	24-116								

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.126	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
307-24-4	<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.0905</b>	J	ug/kg dry	0.0601	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-85-9	<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.237</b>		ug/kg dry	0.119	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.203	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
335-67-1	<b>Perfluorooctanoic acid (PFOA)</b>	<b>24.0</b>		ug/kg dry	0.195	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.189	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.214	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.217	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.225	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.185	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ



### Sample Information

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**York Sample ID:** 23K1831-01

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		ug/kg dry	0.142	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.117	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.168	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.220	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.124	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.166	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.176	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.217	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.675	0.862	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.857	0.871	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.124	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.158	0.404	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
151772-58-6	* Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ug/kg dry	0.219	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0703	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.109	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.178	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.675	0.851	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.690	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.353	0.858	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.279	0.849	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.197	0.858	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.192	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.141	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ





### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.719	1.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.38	5.67	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.70	5.67	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.693	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.204	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.791	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.225	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	12.3 %	25-150
Surrogate: M5PFHxA	23.4 %	25-150
Surrogate: M4PFHpA	76.2 %	25-150
Surrogate: M3PFHxS	115 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	101 %	25-150
Surrogate: M6PFDA	145 %	25-150
Surrogate: M7PFUdA	101 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	88.7 %	25-150
Surrogate: M2PFTeDA	106 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	3.39 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	135 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.16 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	79.7 %	10-150
Surrogate: d3-N-MeFOSAA	131 %	25-150
Surrogate: d5-N-EtFOSAA	123 %	25-150
Surrogate: M2-6:2 FTS	156 %	25-200
Surrogate: M2-8:2 FTS	222 %	25-200
Surrogate: M9PFNA	111 %	25-150
Surrogate: M2-4:2 FTS	26.0 %	25-150
Surrogate: d-N-MeFOSA	47.3 %	25-150
Surrogate: d-N-EtFOSA	40.0 %	25-150
Surrogate: M3HFPO-DA	21.8 %	25-150



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d9-N-EtFOSE	33.8 %			25-150						
	Surrogate: d7-N-MeFOSE	52.9 %			25-150						

**Pesticides, TCLP RCRA List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/L	0.200	0.200	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
72-20-8	Endrin	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
76-44-8	Heptachlor	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
72-43-5	Methoxychlor	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
8001-35-2	Toxaphene	ND		ug/L	1.00	1.00	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	71.4 %			30-120						
877-09-8	Surrogate: Tetrachloro-m-xylene	59.7 %			30-120						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
12672-29-6	<b>Aroclor 1248</b>	<b>0.239</b>	P	mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Polychlorinated Biphenyls (PCB)**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	0.239	P	mg/kg dry	0.0190	1	EPA 8082A	12/07/2023 14:51	12/08/2023 15:45	BCJ
							Certifications:			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	59.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	57.5 %	30-140							

**Herbicides, TCLP Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A/1311	12/04/2023 09:09	12/05/2023 18:00	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A/1311	12/04/2023 09:09	12/05/2023 18:00	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	48.2 %	10-150							

**Total Petroleum Hydrocarbons-DRO (C10-C28)**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Total Petroleum Hydrocarbons-DRO</b>		<b>1840</b>		mg/kg dry	11.4	1	EPA 8015D	12/01/2023 08:00	12/04/2023 12:01	GXB
							Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
638-68-6	Surrogate: Triacontane	52.7 %	30-150							

**Total Petroleum Hydrocarbons-GRO (C5-C10)**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Total Petroleum Hydrocarbons-GRO</b>		<b>616</b>		mg/kg dry	86.5	100	EPA 8015D	12/01/2023 08:00	12/02/2023 03:01	BMT
							Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	78.0 %	52-146							

**Metals, Target Analyte**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

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

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 12:20 pm	<u>Date Received</u> 11/30/2023
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10700		mg/kg dry	4.81	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-36-0	Antimony	36.0		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-38-2	Arsenic	4.96		mg/kg dry	1.44	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-39-3	Barium	3090		mg/kg dry	2.40	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-41-7	Beryllium	0.052		mg/kg dry	0.049	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-43-9	Cadmium	11.6		mg/kg dry	0.289	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-70-2	Calcium	476		mg/kg dry	4.81	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-47-3	Chromium	41.2		mg/kg dry	0.482	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-48-4	Cobalt	1.08		mg/kg dry	0.385	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-50-8	Copper	75.3		mg/kg dry	1.93	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-89-6	Iron	19900		mg/kg dry	24.1	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-92-1	Lead	241		mg/kg dry	0.482	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-95-4	Magnesium	3670		mg/kg dry	4.82	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-96-5	Manganese	330		mg/kg dry	0.482	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-02-0	Nickel	18.5		mg/kg dry	0.959	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-09-7	Potassium	1150		mg/kg dry	4.82	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7782-49-2	Selenium	3.96		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-22-4	Silver	ND		mg/kg dry	0.485	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-23-5	Sodium	1040		mg/kg dry	48.1	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-28-0	Thallium	ND		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-62-2	Vanadium	16.8		mg/kg dry	0.959	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	96.8		mg/kg dry	2.40	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG

**Metals, TCLP RCRA**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-39-3	Barium	3.03		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7439-92-1	Lead	0.384		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/07/2023 08:46	12/08/2023 13:34	CEG
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	3.04		mg/kg dry	0.0346	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04	12/07/2023 16:10	12/07/2023 20:47	AGNR

**Mercury, TCLP**

**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	0.000200	1	EPA 7470/1311 Certifications: CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04440,NELAC-NY108	12/05/2023 08:21	12/05/2023 08:21	PFA

**pH**

**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
	pH	4.61		pH units	0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH-PH-0723,PADEP-68-04440,NJDEP-CT	12/06/2023 07:48	12/06/2023 15:10	TCD

**Reactivity-Cyanide**

**Log-in Notes:**

**Sample Notes:**



**Sample Information**

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 12:20 pm	<u>Date Received</u> 11/30/2023
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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
	* Reactivity - Cyanide	Non-Reactiv e		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH-PH-0723,PADEP-68-04440	12/04/2023 08:58	12/04/2023 16:04	SMK

**Reactivity-Sulfide**

**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
	* Reactivity - Sulfide	24.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH-PH-0723,PADEP-68-04440	12/04/2023 08:56	12/04/2023 16:04	SMK

**Ignitability**

**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
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P Certifications:	11/30/2023 16:40	12/01/2023 09:03	TAJ

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.6		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/04/2023 10:04	12/04/2023 11:48	TAJ

**TCLP Extraction for METALS EPA 1311**

**Log-in Notes:**

**Sample Notes: EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/01/2023 13:11	12/02/2023 17:03	LRS

**TCLP Extraction for SVOCS/PEST/HERB**

**Log-in Notes:**

**Sample Notes: EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/01/2023 12:24	12/02/2023 17:02	LRS

**TCLP Extraction for VOA by EPA 1311 ZHE**

**Log-in Notes:**

**Sample Notes: EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/01/2023 14:38	12/04/2023 09:44	TAJ



### Sample Information

**Client Sample ID:** IV5\_WC\_FB

**York Sample ID:** 23K1831-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 12:35 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.459	1.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.342	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.694	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.664	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.410	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.801	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.508	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.733	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.10	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.860	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.723	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.674	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.772	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.01	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.225	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.860	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.889	1.87	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.29	1.89	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.04	7.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.322	7.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.488	3.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ng/L	2.09	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ





### Sample Information

**Client Sample ID:** IV5\_WC\_FB

**York Sample ID:** 23K1831-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 12:35 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.244	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.361	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.743	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.75	7.33	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.16	7.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.35	7.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.684	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
919005-14-4	ADONA	ND		ng/L	0.518	7.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.909	1.90	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.840	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPtPA)	ND		ng/L	1.98	4.88	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.16	24.4	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.25	24.4	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.90	19.5	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.54	1.95	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.90	19.5	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.76	1.95	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	127 %	25-150
Surrogate: M5PFHxA	153 %	25-150
Surrogate: M4PFHpA	205 %	25-150
Surrogate: M3PFHxS	197 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	157 %	25-150
Surrogate: M6PFDA	191 %	25-150
Surrogate: M7PFUdA	161 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	106 %	25-150





### Sample Information

**Client Sample ID:** IV5\_WC\_FB

**York Sample ID:** 23K1831-02

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 29, 2023 12:35 pm	<u>Date Received</u> 11/30/2023
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**PFAS, EPA 1633 Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2PFTeDA	32.0 %			10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.05 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	148 %			25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	27.9 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	123 %			10-150						
	Surrogate: d3-N-MeFOSAA	137 %			25-150						
	Surrogate: d5-N-EtFOSAA	104 %			25-150						
	Surrogate: M2-6:2 FTS	151 %			25-200						
	Surrogate: M2-8:2 FTS	157 %			25-200						
	Surrogate: M9PFNA	%			25-150						
	Surrogate: M2-4:2 FTS	141 %			25-150						
	Surrogate: d-N-MeFOSA	115 %			25-150						
	Surrogate: d-N-EtFOSA	94.9 %			25-150						
	Surrogate: M3HFPO-DA	166 %			25-150						
	Surrogate: d9-N-EtFOSE	17.4 %			25-150						
	Surrogate: d7-N-MeFOSE	32.2 %			25-150						

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1831-03

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 29, 2023 1:00 pm	<u>Date Received</u> 11/30/2023
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**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	0.216	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1831-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

**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
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
87-61-6	1,2,3-Trichlorobenzene	ND	QL-02	ug/L	0.222	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
123-91-1	1,4-Dioxane	ND	ICVE	ug/L	35.3	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
67-64-1	Acetone	ND	ICVE	ug/L	1.34	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
107-13-1	<b>Acrylonitrile</b>	<b>0.430</b>		ug/L	0.422	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K1831-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various chemical compounds like Bromodichloromethane, Bromoform, etc.



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1831-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

**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
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/05/2023 22:20	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/05/2023 22:20	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	99.7 %			70-130						
2037-26-5	Surrogate: SURR: Toluene-d8	97.5 %			70-130						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.1 %			70-130						



## Analytical Batch Summary

**Batch ID:** BK31831      **Preparation Method:** EPA 5035A      **Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BK31831-BLK1	Blank	12/01/23
BK31831-DUP1	Duplicate	12/01/23
BK31831-MS1	Matrix Spike	12/01/23
BK31831-SRM1	Reference	12/01/23

**Batch ID:** BK31981      **Preparation Method:** Analysis Preparation      **Prepared By:** CAM2

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	11/30/23

**Batch ID:** BK31986      **Preparation Method:** EPA 3550C      **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BK31986-BLK1	Blank	12/01/23
BK31986-BS1	LCS	12/01/23
BK31986-MS1	Matrix Spike	12/01/23
BK31986-MSD1	Matrix Spike Dup	12/01/23

**Batch ID:** BL30041      **Preparation Method:** EPA 1633 Prep      **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BL30041-BLK1	Blank	12/01/23
BL30041-BS1	LCS	12/01/23
BL30041-BS2	LCS	12/01/23
BL30041-MS1	Matrix Spike	12/01/23
BL30041-MSD1	Matrix Spike Dup	12/01/23

**Batch ID:** BL30044      **Preparation Method:** EPA 1633 Prep      **Prepared By:** AM

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-02	IV5_WC_FB	12/01/23
BL30044-BLK1	Blank	12/01/23
BL30044-BS1	LCS	12/01/23
BL30044-BS2	LCS	12/01/23
BL30044-DUP1	Duplicate	12/01/23

**Batch ID:** BL30046      **Preparation Method:** EPA SW 846-1311 TCLP extr. for SV(      **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
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23K1831-01 IV5\_WC-01 12/01/23  
BL30046-BLK1 Blank 12/01/23

**Batch ID:** BL30051 **Preparation Method:** EPA SW 846-1311 TCLP ext. for metz **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BL30051-BLK1	Blank	12/01/23

**Batch ID:** BL30053 **Preparation Method:** EPA SW 846-1311 TCLP ZHE for VO **Prepared By:** CAM2

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BL30053-BLK1	Blank	12/01/23

**Batch ID:** BL30084 **Preparation Method:** EPA 3510C/1311 **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/03/23
BL30084-BLK1	Blank	12/03/23
BL30084-BS1	LCS	12/03/23
BL30084-BSD1	LCS Dup	12/03/23
BL30084-LBK1	Leach Fluid Blank	12/03/23
BL30084-MS1	Matrix Spike	12/03/23

**Batch ID:** BL30085 **Preparation Method:** EPA 3510C/1311 **Prepared By:** RJ

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/03/23
BL30085-BLK1	Blank	12/03/23
BL30085-BS1	LCS	12/03/23
BL30085-BSD1	LCS Dup	12/03/23
BL30085-LBK1	Leach Fluid Blank	12/03/23
BL30085-MS1	Matrix Spike	12/03/23

**Batch ID:** BL30088 **Preparation Method:** EPA 3550C **Prepared By:** kaz

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/03/23
23K1831-01RE1	IV5_WC-01	12/03/23
23K1831-01RE2	IV5_WC-01	12/03/23
BL30088-MS1	Matrix Spike	12/03/23
BL30088-MSD1	Matrix Spike Dup	12/03/23

**Batch ID:** BL30146 **Preparation Method:** Analysis Preparation **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date
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23K1831-01	IV5_WC-01	12/04/23
BL30146-BLK1	Blank	12/04/23
BL30146-DUP1	Duplicate	12/04/23

**Batch ID:** BL30147      **Preparation Method:** Analysis Preparation      **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30147-BLK1	Blank	12/04/23

**Batch ID:** BL30148      **Preparation Method:** EPA 3535A/1311      **Prepared By:** moa

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30148-BLK1	Blank	12/04/23
BL30148-BS1	LCS	12/04/23
BL30148-BSD1	LCS Dup	12/04/23
BL30148-LBK1	Leach Fluid Blank	12/04/23
BL30148-MS1	Matrix Spike	12/04/23

**Batch ID:** BL30153      **Preparation Method:** % Solids Prep      **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30153-DUP1	Duplicate	12/04/23

**Batch ID:** BL30185      **Preparation Method:** EPA 5030B/1311      **Prepared By:** SKF

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30185-BLK1	Blank	12/04/23
BL30185-BS1	LCS	12/04/23
BL30185-BSD1	LCS Dup	12/04/23
BL30185-LBK1	Leach Fluid Blank	12/04/23
BL30185-MS1	Matrix Spike	12/04/23

**Batch ID:** BL30215      **Preparation Method:** EPA SW846-7470A      **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/05/23
BL30215-BLK1	Blank	12/05/23
BL30215-BLK2	Blank	12/05/23
BL30215-BS1	LCS	12/05/23
BL30215-BS2	LCS	12/05/23
BL30215-LBK1	Leach Fluid Blank	12/05/23



**Batch ID:** BL30248                      **Preparation Method:** EPA 5030B                      **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-03	Trip Blank	12/05/23
BL30248-BLK1	Blank	12/05/23
BL30248-BS1	LCS	12/05/23
BL30248-BS2	LCS	12/05/23
BL30248-BSD1	LCS Dup	12/05/23
BL30248-BSD2	LCS Dup	12/05/23

**Batch ID:** BL30267                      **Preparation Method:** EPA 3050B                      **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/05/23
BL30267-BLK1	Blank	12/05/23
BL30267-DUP1	Duplicate	12/05/23
BL30267-MS1	Matrix Spike	12/05/23
BL30267-PS1	Post Spike	12/05/23
BL30267-SRM1	Reference	12/05/23

**Batch ID:** BL30313                      **Preparation Method:** Analysis Preparation                      **Prepared By:** TCD

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/06/23
BL30313-DUP1	Duplicate	12/06/23

**Batch ID:** BL30315                      **Preparation Method:** EPA 5035A                      **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/06/23
BL30315-BLK1	Blank	12/06/23
BL30315-BLK2	Blank	12/06/23
BL30315-BS1	LCS	12/06/23
BL30315-BSD1	LCS Dup	12/06/23
BL30315-MS1	Matrix Spike	12/06/23
BL30315-MSD1	Matrix Spike Dup	12/06/23

**Batch ID:** BL30368                      **Preparation Method:** EPA 5030B/1311                      **Prepared By:** SKF

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01RE1	IV5_WC-01	12/06/23
BL30368-BLK1	Blank	12/06/23
BL30368-BS1	LCS	12/06/23
BL30368-BSD1	LCS Dup	12/06/23
BL30368-LBK1	Leach Fluid Blank	12/06/23

**Batch ID:** BL30387                      **Preparation Method:** EPA 5035A                      **Prepared By:** SS





YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01RE1	IV5_WC-01	12/07/23
BL30387-BLK1	Blank	12/07/23
BL30387-BLK2	Blank	12/07/23
BL30387-BS1	LCS	12/07/23
BL30387-BSD1	LCS Dup	12/07/23
BL30387-MS1	Matrix Spike	12/07/23

**Batch ID:** BL30425      **Preparation Method:** EPA 3015A/1311      **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/07/23
BL30425-BLK1	Blank	12/07/23
BL30425-BS1	LCS	12/07/23
BL30425-DUP1	Duplicate	12/07/23
BL30425-LBK1	Leach Fluid Blank	12/07/23
BL30425-MS1	Matrix Spike	12/07/23
BL30425-PS1	Post Spike	12/07/23

**Batch ID:** BL30462      **Preparation Method:** EPA 3550C      **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/07/23
BL30462-BLK2	Blank	12/07/23
BL30462-BS2	LCS	12/07/23

**Batch ID:** BL30481      **Preparation Method:** EPA 7473 soil      **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/07/23
BL30481-BLK1	Blank	12/07/23
BL30481-DUP1	Duplicate	12/07/23
BL30481-MS1	Matrix Spike	12/07/23
BL30481-SRM1	Reference	12/07/23

**Batch ID:** BL30498      **Preparation Method:** EPA 5035A      **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01RE2	IV5_WC-01	12/08/23
BL30498-BLK1	Blank	12/08/23
BL30498-BLK2	Blank	12/08/23
BL30498-BS1	LCS	12/08/23
BL30498-BSD1	LCS Dup	12/08/23



**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
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**Batch BL30185 - EPA 5030B/1311**

**Blank (BL30185-BLK1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	ND	0.0050	mg/L								
1,2-Dichloroethane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
Benzene	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.8		ug/L	50.0		99.7	77-125				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	55.1		"	50.0		110	76-130				
<i>Surrogate: SURR: Toluene-d8</i>	53.0		"	50.0		106	85-120				

**LCS (BL30185-BS1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	51		ug/L	50.0		102	68-134				
1,2-Dichloroethane	49		"	50.0		97.4	69-133				
1,4-Dichlorobenzene	52		"	50.0		104	82-124				
2-Butanone	44		"	50.0		87.7	44-169				
Benzene	48		"	50.0		96.3	72-134				
Carbon tetrachloride	48		"	50.0		95.3	62-145				
Chlorobenzene	51		"	50.0		102	85-119				
Chloroform	46		"	50.0		91.9	74-131				
Tetrachloroethylene	33		"	50.0		66.5	78-133	Low Bias			
Trichloroethylene	50		"	50.0		99.5	81-125				
Vinyl Chloride	64		"	50.0		128	42-136				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	52.1		"	50.0		104	77-125				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	54.6		"	50.0		109	76-130				
<i>Surrogate: SURR: Toluene-d8</i>	53.2		"	50.0		106	85-120				



**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
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**Batch BL30185 - EPA 5030B/1311**

**LCS Dup (BL30185-BSD1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	52		ug/L	50.0		104	68-134		1.61	30	
1,2-Dichloroethane	49		"	50.0		97.9	69-133		0.492	30	
1,4-Dichlorobenzene	54		"	50.0		108	82-124		3.27	30	
2-Butanone	43		"	50.0		85.3	44-169		2.70	30	
Benzene	49		"	50.0		98.0	72-134		1.73	30	
Carbon tetrachloride	48		"	50.0		96.7	62-145		1.48	30	
Chlorobenzene	52		"	50.0		104	85-119		1.95	30	
Chloroform	47		"	50.0		93.5	74-131		1.68	30	
Tetrachloroethylene	34		"	50.0		67.1	78-133	Low Bias	0.868	30	
Trichloroethylene	51		"	50.0		102	81-125		2.93	30	
Vinyl Chloride	64		"	50.0		129	42-136		0.0934	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>54.1</i>		<i>"</i>	<i>50.0</i>		<i>108</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.9</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>85-120</i>				

**Leach Fluid Blank (BL30185-LBK1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	ND	0.050	mg/L								
1,2-Dichloroethane	ND	0.050	"								
1,4-Dichlorobenzene	ND	0.050	"								
2-Butanone	ND	0.050	"								
Benzene	ND	0.050	"								
Carbon tetrachloride	ND	0.050	"								
Chlorobenzene	ND	0.050	"								
Chloroform	ND	0.050	"								
Tetrachloroethylene	ND	0.050	"								
Trichloroethylene	ND	0.050	"								
Vinyl Chloride	ND	0.050	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.7</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>55.5</i>		<i>"</i>	<i>50.0</i>		<i>111</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.3</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>85-120</i>				



**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
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**Batch BL30185 - EPA 5030B/1311**

<b>Matrix Spike (BL30185-MS1)</b>	<b>*Source sample: 23K1691-07 (Matrix Spike)</b>						<b>Prepared: 12/04/2023 Analyzed: 12/05/2023</b>				
1,1-Dichloroethylene	48		ug/L	50.0	0.0	95.3	47-150				
1,2-Dichloroethane	47		"	50.0	0.0	93.4	57-139				
1,4-Dichlorobenzene	47		"	50.0	0.0	93.9	69-125				
2-Butanone	38		"	50.0	0.0	76.4	42-153				
Benzene	46		"	50.0	0.0	91.3	55-139				
Carbon tetrachloride	44		"	50.0	0.0	88.4	51-147				
Chlorobenzene	49		"	50.0	0.0	98.3	75-120				
Chloroform	44		"	50.0	0.0	87.3	60-137				
Tetrachloroethylene	31		"	50.0	0.0	61.9	51-140				
Trichloroethylene	48		"	50.0	0.0	95.6	61-133				
Vinyl Chloride	42		"	50.0	0.0	84.8	25-140				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>53.7</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>53.6</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>85-120</i>				

**Batch BL30248 - EPA 5030B**

<b>Blank (BL30248-BLK1)</b>	<b>Prepared &amp; Analyzed: 12/05/2023</b>										
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	"								
1,4-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	"								



**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
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**Batch BL30248 - EPA 5030B**

**Blank (BL30248-BLK1)**

Prepared & Analyzed: 12/05/2023

Chlorobenzene	ND	0.500	ug/L								
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	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
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	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	10.2		"	10.0		102	70-130				
Surrogate: SURRE: Toluene-d8	9.81		"	10.0		98.1	70-130				
Surrogate: SURRE: p-Bromofluorobenzene	9.83		"	10.0		98.3	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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS (BL30248-BS1)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	9.77		ug/L	10.0		97.7	82-126			30	
1,1,1-Trichloroethane	10.4		"	10.0		104	70-130			20	
1,1,2,2-Tetrachloroethane	9.94		"	10.0		99.4	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	70-130			20	
1,1,2-Trichloroethane	9.25		"	10.0		92.5	70-130			20	
1,1-Dichloroethane	10.0		"	10.0		100	70-130			20	
1,1-Dichloroethylene	11.1		"	10.0		111	70-130			20	
1,2,3-Trichlorobenzene	7.58		"	10.0		75.8	70-130			20	
1,2,3-Trichloropropane	9.26		"	10.0		92.6	77-128			30	
1,2,4-Trichlorobenzene	8.65		"	10.0		86.5	70-130			20	
1,2,4-Trimethylbenzene	9.81		"	10.0		98.1	82-132			20	
1,2-Dibromo-3-chloropropane	8.62		"	10.0		86.2	40-160			20	
1,2-Dibromoethane	9.18		"	10.0		91.8	70-130			20	
1,2-Dichlorobenzene	9.28		"	10.0		92.8	70-130			20	
1,2-Dichloroethane	9.93		"	10.0		99.3	70-130			20	
1,2-Dichloropropane	9.97		"	10.0		99.7	70-130			20	
1,3,5-Trimethylbenzene	9.95		"	10.0		99.5	80-131			30	
1,3-Dichlorobenzene	9.41		"	10.0		94.1	70-130			20	
1,4-Dichlorobenzene	9.25		"	10.0		92.5	70-130			20	
1,4-Dioxane	76.0		"	210		36.2	40-160	Low Bias		20	
2-Butanone	7.54		"	10.0		75.4	40-160			20	
2-Hexanone	7.75		"	10.0		77.5	40-160			20	
4-Methyl-2-pentanone	8.29		"	10.0		82.9	40-160			20	
Acetone	3.13		"	10.0		31.3	40-160	Low Bias		20	
Acrolein	11.0		"	10.0		110	10-153			30	
Acrylonitrile	9.62		"	10.0		96.2	51-150			30	
Benzene	10.6		"	10.0		106	70-130			20	
Bromochloromethane	9.76		"	10.0		97.6	70-130			20	
Bromodichloromethane	9.68		"	10.0		96.8	70-130			20	
Bromoform	8.98		"	10.0		89.8	70-130			20	
Bromomethane	16.0		"	10.0		160	40-160			20	
Carbon disulfide	11.3		"	10.0		113	40-160			20	
Carbon tetrachloride	10.5		"	10.0		105	70-130			20	
Chlorobenzene	9.85		"	10.0		98.5	70-130			20	
Chloroethane	11.1		"	10.0		111	40-160			20	
Chloroform	10.0		"	10.0		100	70-130			20	
Chloromethane	14.7		"	10.0		147	40-160			20	
cis-1,2-Dichloroethylene	10.1		"	10.0		101	70-130			20	
cis-1,3-Dichloropropylene	9.14		"	10.0		91.4	70-130			20	
Cyclohexane	10.5		"	10.0		105	70-130			20	
Dibromochloromethane	9.21		"	10.0		92.1	70-130			20	
Dibromomethane	9.18		"	10.0		91.8	72-134			30	
Dichlorodifluoromethane	14.2		"	10.0		142	40-160			20	
Ethyl Benzene	10.1		"	10.0		101	70-130			20	
Hexachlorobutadiene	9.65		"	10.0		96.5	67-146			30	
Isopropylbenzene	10.0		"	10.0		100	70-130			20	
Methyl acetate	8.64		"	10.0		86.4	70-130			20	
Methyl tert-butyl ether (MTBE)	8.97		"	10.0		89.7	70-130			20	
Methylcyclohexane	9.99		"	10.0		99.9	70-130			20	
Methylene chloride	9.96		"	10.0		99.6	70-130			20	



**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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS (BL30248-BS1)</b>											
Prepared & Analyzed: 12/05/2023											
n-Butylbenzene	9.70		ug/L	10.0		97.0	79-132				30
n-Propylbenzene	10.0		"	10.0		100	78-133				30
o-Xylene	9.78		"	10.0		97.8	70-130				20
p- & m- Xylenes	20.4		"	20.0		102	70-130				20
p-Isopropyltoluene	9.96		"	10.0		99.6	81-136				30
sec-Butylbenzene	9.85		"	10.0		98.5	79-137				30
Styrene	9.87		"	10.0		98.7	70-130				20
tert-Butyl alcohol (TBA)	46.4		"	50.0		92.9	25-162				30
tert-Butylbenzene	9.71		"	10.0		97.1	77-138				30
Tetrachloroethylene	5.76		"	10.0		57.6	70-130	Low Bias			20
Toluene	10.3		"	10.0		103	70-130				20
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				20
trans-1,3-Dichloropropylene	9.05		"	10.0		90.5	70-130				20
Trichloroethylene	9.65		"	10.0		96.5	70-130				20
Trichlorofluoromethane	11.4		"	10.0		114	40-160				20
Vinyl Chloride	12.0		"	10.0		120	70-130				20
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	9.73		"	10.0		97.3	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.92		"	10.0		99.2	70-130				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.95		"	10.0		99.5	70-130				
<b>LCS (BL30248-BS2)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	9.30		ug/L	10.0		93.0	82-126				30
1,1,1-Trichloroethane	10.0		"	10.0		100	70-130				20
1,1,2,2-Tetrachloroethane	9.34		"	10.0		93.4	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	70-130				20
1,1,2-Trichloroethane	9.20		"	10.0		92.0	70-130				20
1,1-Dichloroethane	9.83		"	10.0		98.3	70-130				20
1,1-Dichloroethylene	10.7		"	10.0		107	70-130				20
1,2,3-Trichlorobenzene	8.68		"	10.0		86.8	70-130				20
1,2,3-Trichloropropane	9.18		"	10.0		91.8	77-128				30
1,2,4-Trichlorobenzene	9.22		"	10.0		92.2	70-130				20
1,2,4-Trimethylbenzene	9.40		"	10.0		94.0	82-132				20
1,2-Dibromo-3-chloropropane	8.79		"	10.0		87.9	40-160				20
1,2-Dibromoethane	9.70		"	10.0		97.0	70-130				20
1,2-Dichlorobenzene	9.22		"	10.0		92.2	70-130				20
1,2-Dichloroethane	10.4		"	10.0		104	70-130				20
1,2-Dichloropropane	9.41		"	10.0		94.1	70-130				20
1,3,5-Trimethylbenzene	9.34		"	10.0		93.4	80-131				30
1,3-Dichlorobenzene	9.12		"	10.0		91.2	70-130				20
1,4-Dichlorobenzene	8.94		"	10.0		89.4	70-130				20
1,4-Dioxane	78.4		"	210		37.3	40-160	Low Bias			20
2-Butanone	7.79		"	10.0		77.9	40-160				20
2-Hexanone	8.80		"	10.0		88.0	40-160				20
4-Methyl-2-pentanone	9.05		"	10.0		90.5	40-160				20
Acetone	7.22		"	10.0		72.2	40-160				20
Acrolein	9.71		"	10.0		97.1	10-153				30
Acrylonitrile	10.3		"	10.0		103	51-150				30
Benzene	10.4		"	10.0		104	70-130				20
Bromochloromethane	10.0		"	10.0		100	70-130				20
Bromodichloromethane	9.49		"	10.0		94.9	70-130				20



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
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Batch BL30248 - EPA 5030B

LCS (BL30248-BS2)

Prepared & Analyzed: 12/05/2023

Bromoform	9.34		ug/L	10.0		93.4	70-130				20
Bromomethane	16.2		"	10.0		162	40-160	High Bias			20
Carbon disulfide	10.9		"	10.0		109	40-160				20
Carbon tetrachloride	10.3		"	10.0		103	70-130				20
Chlorobenzene	9.46		"	10.0		94.6	70-130				20
Chloroethane	10.7		"	10.0		107	40-160				20
Chloroform	10.0		"	10.0		100	70-130				20
Chloromethane	14.1		"	10.0		141	40-160				20
cis-1,2-Dichloroethylene	9.97		"	10.0		99.7	70-130				20
cis-1,3-Dichloropropylene	8.93		"	10.0		89.3	70-130				20
Cyclohexane	10.2		"	10.0		102	70-130				20
Dibromochloromethane	9.55		"	10.0		95.5	70-130				20
Dibromomethane	9.17		"	10.0		91.7	72-134				30
Dichlorodifluoromethane	13.8		"	10.0		138	40-160				20
Ethyl Benzene	9.63		"	10.0		96.3	70-130				20
Hexachlorobutadiene	9.20		"	10.0		92.0	67-146				30
Isopropylbenzene	9.25		"	10.0		92.5	70-130				20
Methyl acetate	9.15		"	10.0		91.5	70-130				20
Methyl tert-butyl ether (MTBE)	9.68		"	10.0		96.8	70-130				20
Methylcyclohexane	9.32		"	10.0		93.2	70-130				20
Methylene chloride	9.80		"	10.0		98.0	70-130				20
n-Butylbenzene	9.24		"	10.0		92.4	79-132				30
n-Propylbenzene	9.20		"	10.0		92.0	78-133				30
o-Xylene	9.44		"	10.0		94.4	70-130				20
p- & m- Xylenes	19.4		"	20.0		97.0	70-130				20
p-Isopropyltoluene	9.28		"	10.0		92.8	81-136				30
sec-Butylbenzene	9.18		"	10.0		91.8	79-137				30
Styrene	9.64		"	10.0		96.4	70-130				20
tert-Butyl alcohol (TBA)	52.0		"	50.0		104	25-162				30
tert-Butylbenzene	9.07		"	10.0		90.7	77-138				30
Tetrachloroethylene	5.43		"	10.0		54.3	70-130	Low Bias			20
Toluene	9.68		"	10.0		96.8	70-130				20
trans-1,2-Dichloroethylene	10.1		"	10.0		101	70-130				20
trans-1,3-Dichloropropylene	8.96		"	10.0		89.6	70-130				20
Trichloroethylene	9.69		"	10.0		96.9	70-130				20
Trichlorofluoromethane	11.1		"	10.0		111	40-160				20
Vinyl Chloride	11.7		"	10.0		117	70-130				20
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.2		"	10.0		102	70-130				
Surrogate: SURRE: Toluene-d8	9.72		"	10.0		97.2	70-130				
Surrogate: SURRE: p-Bromofluorobenzene	9.73		"	10.0		97.3	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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS Dup (BL30248-BSD1)</b>											
										Prepared & Analyzed: 12/05/2023	
1,1,1,2-Tetrachloroethane	9.25		ug/L	10.0		92.5	82-126		5.47	30	
1,1,1-Trichloroethane	9.86		"	10.0		98.6	70-130		5.52	20	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	70-130		1.40	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	70-130		5.85	20	
1,1,2-Trichloroethane	9.02		"	10.0		90.2	70-130		2.52	20	
1,1-Dichloroethane	9.67		"	10.0		96.7	70-130		3.85	20	
1,1-Dichloroethylene	10.4		"	10.0		104	70-130		6.70	20	
1,2,3-Trichlorobenzene	7.94		"	10.0		79.4	70-130		4.64	20	
1,2,3-Trichloropropane	8.97		"	10.0		89.7	77-128		3.18	30	
1,2,4-Trichlorobenzene	8.97		"	10.0		89.7	70-130		3.63	20	
1,2,4-Trimethylbenzene	9.70		"	10.0		97.0	82-132		1.13	20	
1,2-Dibromo-3-chloropropane	9.50		"	10.0		95.0	40-160		9.71	20	
1,2-Dibromoethane	9.12		"	10.0		91.2	70-130		0.656	20	
1,2-Dichlorobenzene	9.26		"	10.0		92.6	70-130		0.216	20	
1,2-Dichloroethane	9.66		"	10.0		96.6	70-130		2.76	20	
1,2-Dichloropropane	9.54		"	10.0		95.4	70-130		4.41	20	
1,3,5-Trimethylbenzene	9.70		"	10.0		97.0	80-131		2.54	30	
1,3-Dichlorobenzene	9.29		"	10.0		92.9	70-130		1.28	20	
1,4-Dichlorobenzene	9.17		"	10.0		91.7	70-130		0.869	20	
1,4-Dioxane	36.9		"	210		17.6	40-160	Low Bias	69.3	20	Non-dir.
2-Butanone	7.50		"	10.0		75.0	40-160		0.532	20	
2-Hexanone	7.81		"	10.0		78.1	40-160		0.771	20	
4-Methyl-2-pentanone	8.40		"	10.0		84.0	40-160		1.32	20	
Acetone	5.98		"	10.0		59.8	40-160		62.6	20	Non-dir.
Acrolein	11.3		"	10.0		113	10-153		2.15	30	
Acrylonitrile	9.93		"	10.0		99.3	51-150		3.17	30	
Benzene	10.2		"	10.0		102	70-130		3.86	20	
Bromochloromethane	9.49		"	10.0		94.9	70-130		2.81	20	
Bromodichloromethane	9.51		"	10.0		95.1	70-130		1.77	20	
Bromoform	8.89		"	10.0		88.9	70-130		1.01	20	
Bromomethane	16.5		"	10.0		165	40-160	High Bias	2.77	20	
Carbon disulfide	10.5		"	10.0		105	40-160		6.70	20	
Carbon tetrachloride	10.0		"	10.0		100	70-130		4.97	20	
Chlorobenzene	9.64		"	10.0		96.4	70-130		2.15	20	
Chloroethane	10.3		"	10.0		103	40-160		7.46	20	
Chloroform	9.77		"	10.0		97.7	70-130		2.73	20	
Chloromethane	13.8		"	10.0		138	40-160		6.25	20	
cis-1,2-Dichloroethylene	9.78		"	10.0		97.8	70-130		2.92	20	
cis-1,3-Dichloropropylene	8.87		"	10.0		88.7	70-130		3.00	20	
Cyclohexane	9.81		"	10.0		98.1	70-130		6.51	20	
Dibromochloromethane	9.22		"	10.0		92.2	70-130		0.109	20	
Dibromomethane	9.00		"	10.0		90.0	72-134		1.98	30	
Dichlorodifluoromethane	13.5		"	10.0		135	40-160		5.35	20	
Ethyl Benzene	9.75		"	10.0		97.5	70-130		3.72	20	
Hexachlorobutadiene	9.18		"	10.0		91.8	67-146		4.99	30	
Isopropylbenzene	9.69		"	10.0		96.9	70-130		3.25	20	
Methyl acetate	8.69		"	10.0		86.9	70-130		0.577	20	
Methyl tert-butyl ether (MTBE)	9.09		"	10.0		90.9	70-130		1.33	20	
Methylcyclohexane	9.33		"	10.0		93.3	70-130		6.83	20	
Methylene chloride	9.73		"	10.0		97.3	70-130		2.34	20	



**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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS Dup (BL30248-BSD1)</b>											
Prepared & Analyzed: 12/05/2023											
n-Butylbenzene	9.41		ug/L	10.0		94.1	79-132		3.04	30	
n-Propylbenzene	9.62		"	10.0		96.2	78-133		4.37	30	
o-Xylene	9.46		"	10.0		94.6	70-130		3.33	20	
p- & m- Xylenes	19.5		"	20.0		97.4	70-130		4.67	20	
p-Isopropyltoluene	9.58		"	10.0		95.8	81-136		3.89	30	
sec-Butylbenzene	9.46		"	10.0		94.6	79-137		4.04	30	
Styrene	9.49		"	10.0		94.9	70-130		3.93	20	
tert-Butyl alcohol (TBA)	51.2		"	50.0		102	25-162		9.83	30	
tert-Butylbenzene	9.42		"	10.0		94.2	77-138		3.03	30	
Tetrachloroethylene	5.41		"	10.0		54.1	70-130	Low Bias	6.27	20	
Toluene	9.80		"	10.0		98.0	70-130		5.07	20	
trans-1,2-Dichloroethylene	9.80		"	10.0		98.0	70-130		6.42	20	
trans-1,3-Dichloropropylene	8.92		"	10.0		89.2	70-130		1.45	20	
Trichloroethylene	9.12		"	10.0		91.2	70-130		5.65	20	
Trichlorofluoromethane	10.8		"	10.0		108	40-160		5.85	20	
Vinyl Chloride	11.1		"	10.0		111	70-130		7.68	20	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>9.66</i>		<i>"</i>	<i>10.0</i>		<i>96.6</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.78</i>		<i>"</i>	<i>10.0</i>		<i>97.8</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>				
<b>LCS Dup (BL30248-BSD2)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	9.25		ug/L	10.0		92.5	82-126		0.539	30	
1,1,1-Trichloroethane	9.74		"	10.0		97.4	70-130		2.63	20	
1,1,2,2-Tetrachloroethane	9.10		"	10.0		91.0	70-130		2.60	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	70-130		3.56	20	
1,1,2-Trichloroethane	9.33		"	10.0		93.3	70-130		1.40	20	
1,1-Dichloroethane	9.52		"	10.0		95.2	70-130		3.20	20	
1,1-Dichloroethylene	10.5		"	10.0		105	70-130		2.64	20	
1,2,3-Trichlorobenzene	8.63		"	10.0		86.3	70-130		0.578	20	
1,2,3-Trichloropropane	9.12		"	10.0		91.2	77-128		0.656	30	
1,2,4-Trichlorobenzene	9.06		"	10.0		90.6	70-130		1.75	20	
1,2,4-Trimethylbenzene	9.22		"	10.0		92.2	82-132		1.93	20	
1,2-Dibromo-3-chloropropane	8.42		"	10.0		84.2	40-160		4.30	20	
1,2-Dibromoethane	9.41		"	10.0		94.1	70-130		3.04	20	
1,2-Dichlorobenzene	9.14		"	10.0		91.4	70-130		0.871	20	
1,2-Dichloroethane	10.2		"	10.0		102	70-130		2.03	20	
1,2-Dichloropropane	9.23		"	10.0		92.3	70-130		1.93	20	
1,3,5-Trimethylbenzene	9.21		"	10.0		92.1	80-131		1.40	30	
1,3-Dichlorobenzene	8.93		"	10.0		89.3	70-130		2.11	20	
1,4-Dichlorobenzene	8.85		"	10.0		88.5	70-130		1.01	20	
1,4-Dioxane	91.5		"	210		43.6	40-160		15.5	20	
2-Butanone	9.28		"	10.0		92.8	40-160		17.5	20	
2-Hexanone	8.72		"	10.0		87.2	40-160		0.913	20	
4-Methyl-2-pentanone	8.76		"	10.0		87.6	40-160		3.26	20	
Acetone	7.69		"	10.0		76.9	40-160		6.30	20	
Acrolein	9.60		"	10.0		96.0	10-153		1.14	30	
Acrylonitrile	9.69		"	10.0		96.9	51-150		5.91	30	
Benzene	10.1		"	10.0		101	70-130		2.93	20	
Bromochloromethane	9.98		"	10.0		99.8	70-130		0.200	20	
Bromodichloromethane	9.29		"	10.0		92.9	70-130		2.13	20	



**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
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**Batch BL30248 - EPA 5030B**

**LCS Dup (BL30248-BSD2)**

Prepared & Analyzed: 12/05/2023

Bromoform	9.65		ug/L	10.0		96.5	70-130		3.26	20	
Bromomethane	15.2		"	10.0		152	40-160		6.81	20	
Carbon disulfide	10.6		"	10.0		106	40-160		2.52	20	
Carbon tetrachloride	9.94		"	10.0		99.4	70-130		3.36	20	
Chlorobenzene	9.25		"	10.0		92.5	70-130		2.24	20	
Chloroethane	10.6		"	10.0		106	40-160		0.936	20	
Chloroform	9.69		"	10.0		96.9	70-130		3.45	20	
Chloromethane	13.8		"	10.0		138	40-160		2.01	20	
cis-1,2-Dichloroethylene	9.76		"	10.0		97.6	70-130		2.13	20	
cis-1,3-Dichloropropylene	8.79		"	10.0		87.9	70-130		1.58	20	
Cyclohexane	9.77		"	10.0		97.7	70-130		3.91	20	
Dibromochloromethane	9.39		"	10.0		93.9	70-130		1.69	20	
Dibromomethane	8.98		"	10.0		89.8	72-134		2.09	30	
Dichlorodifluoromethane	13.3		"	10.0		133	40-160		3.75	20	
Ethyl Benzene	9.42		"	10.0		94.2	70-130		2.20	20	
Hexachlorobutadiene	9.19		"	10.0		91.9	67-146		0.109	30	
Isopropylbenzene	8.98		"	10.0		89.8	70-130		2.96	20	
Methyl acetate	9.73		"	10.0		97.3	70-130		6.14	20	
Methyl tert-butyl ether (MTBE)	9.60		"	10.0		96.0	70-130		0.830	20	
Methylcyclohexane	9.11		"	10.0		91.1	70-130		2.28	20	
Methylene chloride	9.66		"	10.0		96.6	70-130		1.44	20	
n-Butylbenzene	9.09		"	10.0		90.9	79-132		1.64	30	
n-Propylbenzene	8.98		"	10.0		89.8	78-133		2.42	30	
o-Xylene	9.25		"	10.0		92.5	70-130		2.03	20	
p- & m- Xylenes	19.0		"	20.0		94.8	70-130		2.35	20	
p-Isopropyltoluene	9.14		"	10.0		91.4	81-136		1.52	30	
sec-Butylbenzene	9.03		"	10.0		90.3	79-137		1.65	30	
Styrene	9.51		"	10.0		95.1	70-130		1.36	20	
tert-Butyl alcohol (TBA)	59.9		"	50.0		120	25-162		14.1	30	
tert-Butylbenzene	8.90		"	10.0		89.0	77-138		1.89	30	
Tetrachloroethylene	5.29		"	10.0		52.9	70-130	Low Bias	2.61	20	
Toluene	9.41		"	10.0		94.1	70-130		2.83	20	
trans-1,2-Dichloroethylene	9.82		"	10.0		98.2	70-130		3.11	20	
trans-1,3-Dichloropropylene	9.05		"	10.0		90.5	70-130		0.999	20	
Trichloroethylene	9.44		"	10.0		94.4	70-130		2.61	20	
Trichlorofluoromethane	10.8		"	10.0		108	40-160		3.56	20	
Vinyl Chloride	11.1		"	10.0		111	70-130		5.27	20	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.63</i>		<i>"</i>	<i>10.0</i>		<i>96.3</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.65</i>		<i>"</i>	<i>10.0</i>		<i>96.5</i>	<i>70-130</i>				



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
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Batch BL30315 - EPA 5035A

Blank (BL30315-BLK1)

Prepared & Analyzed: 12/06/2023

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



**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
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**Batch BL30315 - EPA 5035A**

**Blank (BL30315-BLK1)**

Prepared & Analyzed: 12/06/2023

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	51.4		ug/L	50.0		103	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	52.7		"	50.0		105	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	51.2		"	50.0		102	76-130				

**Blank (BL30315-BLK2)**

Prepared & Analyzed: 12/06/2023

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

**Batch BL30315 - EPA 5035A**

**Blank (BL30315-BLK2)**

Prepared & Analyzed: 12/06/2023

Bromodichloromethane	ND	0.50	mg/kg wet								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	51.2		ug/L	50.0		102	77-125				
Surrogate: SURRE: Toluene-d8	52.9		"	50.0		106	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.6		"	50.0		103	76-130				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	
<b>Batch BL30315 - EPA 5035A</b>											
<b>LCS (BL30315-BS1)</b>											
Prepared & Analyzed: 12/06/2023											
1,1,1,2-Tetrachloroethane	42.8		ug/L	50.0		85.5	75-129				
1,1,1-Trichloroethane	45.1		"	50.0		90.2	71-137				
1,1,2,2-Tetrachloroethane	53.1		"	50.0		106	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44.0		"	50.0		88.0	58-146				
1,1,2-Trichloroethane	46.5		"	50.0		92.9	83-123				
1,1-Dichloroethane	43.6		"	50.0		87.3	75-130				
1,1-Dichloroethylene	47.2		"	50.0		94.4	64-137				
1,2,3-Trichlorobenzene	45.7		"	50.0		91.4	81-140				
1,2,3-Trichloropropane	50.1		"	50.0		100	81-126				
1,2,4-Trichlorobenzene	46.7		"	50.0		93.4	80-141				
1,2,4-Trimethylbenzene	51.9		"	50.0		104	84-125				
1,2-Dibromo-3-chloropropane	46.8		"	50.0		93.6	74-142				
1,2-Dibromoethane	48.5		"	50.0		97.0	86-123				
1,2-Dichlorobenzene	49.4		"	50.0		98.7	85-122				
1,2-Dichloroethane	46.6		"	50.0		93.1	71-133				
1,2-Dichloropropane	48.6		"	50.0		97.2	81-122				
1,3,5-Trimethylbenzene	51.3		"	50.0		103	82-126				
1,3-Dichlorobenzene	49.7		"	50.0		99.4	84-124				
1,4-Dichlorobenzene	48.7		"	50.0		97.5	84-124				
1,4-Dioxane	437		"	1050		41.6	10-228				
2-Butanone	45.1		"	50.0		90.1	58-147				
2-Hexanone	49.2		"	50.0		98.5	70-139				
4-Methyl-2-pentanone	51.3		"	50.0		103	72-132				
Acetone	37.0		"	50.0		74.1	36-155				
Acrolein	45.0		"	50.0		90.0	10-238				
Acrylonitrile	48.6		"	50.0		97.2	66-141				
Benzene	45.1		"	50.0		90.2	77-127				
Bromochloromethane	46.9		"	50.0		93.8	74-129				
Bromodichloromethane	44.6		"	50.0		89.2	81-124				
Bromoform	40.1		"	50.0		80.3	80-136				
Bromomethane	45.0		"	50.0		90.0	32-177				
Carbon disulfide	45.7		"	50.0		91.5	10-136				
Carbon tetrachloride	41.8		"	50.0		83.5	66-143				
Chlorobenzene	47.5		"	50.0		94.9	86-120				
Chloroethane	45.7		"	50.0		91.4	51-142				
Chloroform	43.9		"	50.0		87.7	76-131				
Chloromethane	46.9		"	50.0		93.8	49-132				
cis-1,2-Dichloroethylene	44.9		"	50.0		89.7	74-132				
cis-1,3-Dichloropropylene	43.8		"	50.0		87.7	81-129				
Cyclohexane	45.7		"	50.0		91.3	70-130				
Dibromochloromethane	42.8		"	50.0		85.7	10-200				
Dibromomethane	48.3		"	50.0		96.6	83-124				
Dichlorodifluoromethane	45.8		"	50.0		91.6	28-158				
Ethyl Benzene	51.6		"	50.0		103	84-125				
Hexachlorobutadiene	48.6		"	50.0		97.1	83-133				
Isopropylbenzene	49.2		"	50.0		98.5	81-127				
Methyl acetate	43.8		"	50.0		87.6	41-143				
Methyl tert-butyl ether (MTBE)	42.9		"	50.0		85.9	74-131				
Methylcyclohexane	44.8		"	50.0		89.6	70-130				
Methylene chloride	47.3		"	50.0		94.6	57-141				



**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
<b>Batch BL30315 - EPA 5035A</b>											
<b>LCS (BL30315-BS1)</b>											
Prepared & Analyzed: 12/06/2023											
n-Butylbenzene	52.7		ug/L	50.0		105	80-130				
n-Propylbenzene	50.5		"	50.0		101	74-136				
o-Xylene	49.5		"	50.0		99.1	83-123				
p- & m- Xylenes	104		"	100		104	82-128				
p-Isopropyltoluene	52.6		"	50.0		105	85-125				
sec-Butylbenzene	50.1		"	50.0		100	83-125				
Styrene	49.7		"	50.0		99.4	86-126				
tert-Butyl alcohol (TBA)	218		"	250		87.2	70-130				
tert-Butylbenzene	48.6		"	50.0		97.2	80-127				
Tetrachloroethylene	30.9		"	50.0		61.8	80-129	Low Bias			
Toluene	48.0		"	50.0		96.0	85-121				
trans-1,2-Dichloroethylene	45.3		"	50.0		90.6	72-132				
trans-1,3-Dichloropropylene	43.2		"	50.0		86.4	78-132				
Trichloroethylene	47.2		"	50.0		94.5	84-123				
Trichlorofluoromethane	47.8		"	50.0		95.6	62-140				
Vinyl Chloride	44.8		"	50.0		89.5	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	50.9		"	50.0		102	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	52.0		"	50.0		104	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	50.0		"	50.0		100	76-130				
<b>LCS Dup (BL30315-BSD1)</b>											
Prepared & Analyzed: 12/06/2023											
1,1,1,2-Tetrachloroethane	44.2		ug/L	50.0		88.5	75-129		3.40	30	
1,1,1-Trichloroethane	46.8		"	50.0		93.6	71-137		3.61	30	
1,1,2,2-Tetrachloroethane	54.2		"	50.0		108	79-129		2.03	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.3		"	50.0		92.7	58-146		5.14	30	
1,1,2-Trichloroethane	47.8		"	50.0		95.7	83-123		2.93	30	
1,1-Dichloroethane	45.1		"	50.0		90.3	75-130		3.40	30	
1,1-Dichloroethylene	48.8		"	50.0		97.6	64-137		3.33	30	
1,2,3-Trichlorobenzene	46.8		"	50.0		93.6	81-140		2.36	30	
1,2,3-Trichloropropane	51.1		"	50.0		102	81-126		2.00	30	
1,2,4-Trichlorobenzene	46.9		"	50.0		93.8	80-141		0.470	30	
1,2,4-Trimethylbenzene	52.7		"	50.0		105	84-125		1.42	30	
1,2-Dibromo-3-chloropropane	47.5		"	50.0		94.9	74-142		1.36	30	
1,2-Dibromoethane	50.4		"	50.0		101	86-123		3.76	30	
1,2-Dichlorobenzene	49.9		"	50.0		99.9	85-122		1.15	30	
1,2-Dichloroethane	48.1		"	50.0		96.3	71-133		3.32	30	
1,2-Dichloropropane	49.6		"	50.0		99.2	81-122		1.96	30	
1,3,5-Trimethylbenzene	51.8		"	50.0		104	82-126		0.950	30	
1,3-Dichlorobenzene	50.3		"	50.0		101	84-124		1.20	30	
1,4-Dichlorobenzene	49.4		"	50.0		98.8	84-124		1.35	30	
1,4-Dioxane	439		"	1050		41.8	10-228		0.623	30	
2-Butanone	47.3		"	50.0		94.6	58-147		4.81	30	
2-Hexanone	51.0		"	50.0		102	70-139		3.47	30	
4-Methyl-2-pentanone	52.6		"	50.0		105	72-132		2.52	30	
Acetone	37.8		"	50.0		75.7	36-155		2.14	30	
Acrolein	46.9		"	50.0		93.9	10-238		4.15	30	
Acrylonitrile	50.4		"	50.0		101	66-141		3.69	30	
Benzene	46.9		"	50.0		93.7	77-127		3.83	30	
Bromochloromethane	48.4		"	50.0		96.9	74-129		3.21	30	
Bromodichloromethane	46.0		"	50.0		91.9	81-124		3.00	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
<b>Batch BL30315 - EPA 5035A</b>											
<b>LCS Dup (BL30315-BSD1)</b>											
Prepared & Analyzed: 12/06/2023											
Bromoform	42.1		ug/L	50.0		84.3	80-136		4.84	30	
Bromomethane	46.3		"	50.0		92.5	32-177		2.78	30	
Carbon disulfide	47.7		"	50.0		95.5	10-136		4.30	30	
Carbon tetrachloride	43.4		"	50.0		86.9	66-143		3.99	30	
Chlorobenzene	48.6		"	50.0		97.2	86-120		2.37	30	
Chloroethane	47.2		"	50.0		94.3	51-142		3.10	30	
Chloroform	45.5		"	50.0		91.1	76-131		3.74	30	
Chloromethane	47.7		"	50.0		95.4	49-132		1.73	30	
cis-1,2-Dichloroethylene	46.3		"	50.0		92.7	74-132		3.22	30	
cis-1,3-Dichloropropylene	45.1		"	50.0		90.2	81-129		2.88	30	
Cyclohexane	46.8		"	50.0		93.6	70-130		2.49	30	
Dibromochloromethane	44.6		"	50.0		89.2	10-200		4.00	30	
Dibromomethane	50.0		"	50.0		100	83-124		3.44	30	
Dichlorodifluoromethane	46.3		"	50.0		92.6	28-158		1.09	30	
Ethyl Benzene	52.7		"	50.0		105	84-125		2.09	30	
Hexachlorobutadiene	49.0		"	50.0		98.0	83-133		0.943	30	
Isopropylbenzene	50.2		"	50.0		100	81-127		1.87	30	
Methyl acetate	44.8		"	50.0		89.6	41-143		2.32	30	
Methyl tert-butyl ether (MTBE)	44.7		"	50.0		89.4	74-131		4.02	30	
Methylcyclohexane	45.7		"	50.0		91.4	70-130		2.01	30	
Methylene chloride	48.6		"	50.0		97.1	57-141		2.57	30	
n-Butylbenzene	52.5		"	50.0		105	80-130		0.380	30	
n-Propylbenzene	51.1		"	50.0		102	74-136		1.24	30	
o-Xylene	50.5		"	50.0		101	83-123		1.96	30	
p- & m- Xylenes	107		"	100		107	82-128		2.22	30	
p-Isopropyltoluene	53.1		"	50.0		106	85-125		0.928	30	
sec-Butylbenzene	50.8		"	50.0		102	83-125		1.41	30	
Styrene	51.1		"	50.0		102	86-126		2.88	30	
tert-Butyl alcohol (TBA)	224		"	250		89.6	70-130		2.71	30	
tert-Butylbenzene	49.3		"	50.0		98.7	80-127		1.49	30	
Tetrachloroethylene	31.8		"	50.0		63.7	80-129	Low Bias	3.00	30	
Toluene	49.2		"	50.0		98.3	85-121		2.35	30	
trans-1,2-Dichloroethylene	46.5		"	50.0		93.0	72-132		2.66	30	
trans-1,3-Dichloropropylene	44.9		"	50.0		89.8	78-132		3.81	30	
Trichloroethylene	48.2		"	50.0		96.3	84-123		1.89	30	
Trichlorofluoromethane	48.8		"	50.0		97.6	62-140		2.13	30	
Vinyl Chloride	46.0		"	50.0		92.1	52-130		2.84	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	51.9		"	50.0		104	77-125				
Surrogate: SURRE: Toluene-d8	51.8		"	50.0		104	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	49.6		"	50.0		99.3	76-130				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result				%REC		
<b>Batch BL30315 - EPA 5035A</b>											
<b>Matrix Spike (BL30315-MS1)</b>	*Source sample: 23K1867-01 (Matrix Spike)						Prepared & Analyzed: 12/06/2023				
1,1,1,2-Tetrachloroethane	36.5		ug/L	50.0	0.00	73.0	15-161				
1,1,1-Trichloroethane	40.1		"	50.0	0.00	80.1	42-145				
1,1,2,2-Tetrachloroethane	43.7		"	50.0	0.00	87.5	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36.6		"	50.0	0.00	73.2	11-160				
1,1,2-Trichloroethane	39.9		"	50.0	0.00	79.9	44-145				
1,1-Dichloroethane	39.6		"	50.0	0.00	79.1	46-142				
1,1-Dichloroethylene	41.7		"	50.0	0.00	83.4	30-153				
1,2,3-Trichlorobenzene	24.8		"	50.0	0.00	49.5	10-157				
1,2,3-Trichloropropane	41.3		"	50.0	0.00	82.7	38-155				
1,2,4-Trichlorobenzene	25.7		"	50.0	0.00	51.3	10-151				
1,2,4-Trimethylbenzene	40.5		"	50.0	0.00	81.0	10-170				
1,2-Dibromo-3-chloropropane	34.4		"	50.0	0.00	68.8	36-138				
1,2-Dibromoethane	41.4		"	50.0	0.00	82.8	40-142				
1,2-Dichlorobenzene	36.4		"	50.0	0.00	72.8	10-147				
1,2-Dichloroethane	40.8		"	50.0	0.00	81.6	48-133				
1,2-Dichloropropane	43.2		"	50.0	0.00	86.3	47-141				
1,3,5-Trimethylbenzene	40.4		"	50.0	0.00	80.9	10-150				
1,3-Dichlorobenzene	35.5		"	50.0	0.00	70.9	10-144				
1,4-Dichlorobenzene	34.6		"	50.0	0.00	69.3	10-160				
1,4-Dioxane	357		"	1050	0.00	34.0	10-191				
2-Butanone	36.3		"	50.0	0.00	72.5	10-189				
2-Hexanone	35.7		"	50.0	0.00	71.3	10-181				
4-Methyl-2-pentanone	40.9		"	50.0	0.00	81.8	10-166				
Acetone	30.2		"	50.0	0.00	60.3	10-196				
Acrolein	1.99		"	50.0	0.00	3.98	10-192	Low Bias			
Acrylonitrile	34.7		"	50.0	0.00	69.4	13-161				
Benzene	40.7		"	50.0	0.00	81.3	43-139				
Bromochloromethane	41.2		"	50.0	0.00	82.4	38-145				
Bromodichloromethane	38.6		"	50.0	0.00	77.1	38-147				
Bromoform	31.7		"	50.0	0.00	63.3	29-156				
Bromomethane	38.7		"	50.0	0.00	77.5	10-166				
Carbon disulfide	38.6		"	50.0	0.00	77.1	10-131				
Carbon tetrachloride	35.4		"	50.0	0.00	70.8	35-145				
Chlorobenzene	39.2		"	50.0	0.00	78.4	21-154				
Chloroethane	41.0		"	50.0	0.00	82.1	15-160				
Chloroform	39.4		"	50.0	0.00	78.7	47-142				
Chloromethane	42.7		"	50.0	0.00	85.3	10-159				
cis-1,2-Dichloroethylene	40.1		"	50.0	0.00	80.2	42-144				
cis-1,3-Dichloropropylene	37.0		"	50.0	0.00	73.9	18-159				
Cyclohexane	38.5		"	50.0	0.00	77.1	70-130				
Dibromochloromethane	35.4		"	50.0	0.00	70.9	10-179				
Dibromomethane	41.3		"	50.0	0.00	82.6	47-143				
Dichlorodifluoromethane	38.4		"	50.0	0.00	76.9	10-145				
Ethyl Benzene	42.6		"	50.0	0.00	85.2	11-158				
Hexachlorobutadiene	23.0		"	50.0	0.00	46.0	10-158				
Isopropylbenzene	40.6		"	50.0	0.00	81.1	10-162				
Methyl acetate	40.6		"	50.0	0.00	81.2	10-149				
Methyl tert-butyl ether (MTBE)	38.1		"	50.0	0.00	76.2	42-152				
Methylcyclohexane	33.9		"	50.0	0.00	67.7	70-130	Low Bias			
Methylene chloride	47.8		"	50.0	11.3	73.0	28-151				



**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
<b>Batch BL30315 - EPA 5035A</b>											
<b>Matrix Spike (BL30315-MS1)</b>		*Source sample: 23K1867-01 (Matrix Spike)					Prepared & Analyzed: 12/06/2023				
n-Butylbenzene	34.1		ug/L	50.0	0.00	68.3	10-162				
n-Propylbenzene	39.1		"	50.0	0.00	78.2	10-155				
o-Xylene	41.1		"	50.0	0.00	82.3	10-158				
p- & m- Xylenes	85.1		"	100	0.00	85.1	10-156				
p-Isopropyltoluene	37.9		"	50.0	0.00	75.8	10-147				
sec-Butylbenzene	36.7		"	50.0	0.00	73.4	10-157				
Styrene	39.2		"	50.0	0.00	78.5	13-171				
tert-Butyl alcohol (TBA)	177		"	250	0.00	70.9	34-179				
tert-Butylbenzene	38.5		"	50.0	0.00	77.1	10-160				
Tetrachloroethylene	25.2		"	50.0	0.00	50.3	30-167				
Toluene	41.5		"	50.0	0.00	83.0	21-160				
trans-1,2-Dichloroethylene	39.7		"	50.0	0.00	79.3	29-153				
trans-1,3-Dichloropropylene	35.3		"	50.0	0.00	70.6	18-155				
Trichloroethylene	40.6		"	50.0	0.00	81.2	24-169				
Trichlorofluoromethane	40.5		"	50.0	0.00	81.0	35-142				
Vinyl Chloride	39.5		"	50.0	0.00	79.1	12-160				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.0</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>76-130</i>				
<b>Matrix Spike Dup (BL30315-MSD1)</b>		*Source sample: 23K1867-01 (Matrix Spike Dup)					Prepared & Analyzed: 12/06/2023				
1,1,1,2-Tetrachloroethane	37.9		ug/L	50.0	0.00	75.7	15-161		3.71		33
1,1,1-Trichloroethane	41.4		"	50.0	0.00	82.8	42-145		3.31		30
1,1,2,2-Tetrachloroethane	45.9		"	50.0	0.00	91.7	16-167		4.75		56
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36.9		"	50.0	0.00	73.7	11-160		0.790		31
1,1,2-Trichloroethane	41.7		"	50.0	0.00	83.4	44-145		4.29		40
1,1-Dichloroethane	40.9		"	50.0	0.00	81.8	46-142		3.38		36
1,1-Dichloroethylene	42.7		"	50.0	0.00	85.3	30-153		2.35		31
1,2,3-Trichlorobenzene	23.8		"	50.0	0.00	47.6	10-157		3.95		47
1,2,3-Trichloropropane	43.4		"	50.0	0.00	86.7	38-155		4.77		48
1,2,4-Trichlorobenzene	24.4		"	50.0	0.00	48.7	10-151		5.20		52
1,2,4-Trimethylbenzene	40.0		"	50.0	0.00	80.1	10-170		1.09		242
1,2-Dibromo-3-chloropropane	36.3		"	50.0	0.00	72.6	36-138		5.37		54
1,2-Dibromoethane	43.1		"	50.0	0.00	86.2	40-142		4.07		39
1,2-Dichlorobenzene	35.9		"	50.0	0.00	71.7	10-147		1.41		52
1,2-Dichloroethane	42.6		"	50.0	0.00	85.1	48-133		4.27		32
1,2-Dichloropropane	44.7		"	50.0	0.00	89.4	47-141		3.55		37
1,3,5-Trimethylbenzene	40.1		"	50.0	0.00	80.2	10-150		0.820		62
1,3-Dichlorobenzene	34.5		"	50.0	0.00	69.1	10-144		2.63		51
1,4-Dichlorobenzene	33.8		"	50.0	0.00	67.6	10-160		2.49		52
1,4-Dioxane	385		"	1050	0.00	36.7	10-191		7.61		196
2-Butanone	38.2		"	50.0	0.00	76.4	10-189		5.18		67
2-Hexanone	35.4		"	50.0	0.00	70.9	10-181		0.675		60
4-Methyl-2-pentanone	42.9		"	50.0	0.00	85.8	10-166		4.78		47
Acetone	29.2		"	50.0	0.00	58.5	10-196		3.13		150
Acrolein	2.01		"	50.0	0.00	4.02	10-192	Low Bias	1.00		128
Acrylonitrile	37.0		"	50.0	0.00	74.0	13-161		6.39		48
Benzene	41.9		"	50.0	0.00	83.8	43-139		2.96		64
Bromochloromethane	42.4		"	50.0	0.00	84.8	38-145		2.87		30
Bromodichloromethane	40.5		"	50.0	0.00	81.0	38-147		4.91		37



**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
<b>Batch BL30315 - EPA 5035A</b>											
<b>Matrix Spike Dup (BL30315-MSD1)</b>	*Source sample: 23K1867-01 (Matrix Spike Dup)						Prepared & Analyzed: 12/06/2023				
Bromoform	33.3		ug/L	50.0	0.00	66.7	29-156		5.14	51	
Bromomethane	40.1		"	50.0	0.00	80.3	10-166		3.55	42	
Carbon disulfide	39.6		"	50.0	0.00	79.1	10-131		2.53	36	
Carbon tetrachloride	36.1		"	50.0	0.00	72.2	35-145		2.01	31	
Chlorobenzene	39.5		"	50.0	0.00	79.0	21-154		0.737	32	
Chloroethane	41.8		"	50.0	0.00	83.6	15-160		1.86	40	
Chloroform	40.8		"	50.0	0.00	81.7	47-142		3.69	29	
Chloromethane	43.6		"	50.0	0.00	87.2	10-159		2.11	31	
cis-1,2-Dichloroethylene	41.3		"	50.0	0.00	82.6	42-144		2.85	30	
cis-1,3-Dichloropropylene	38.2		"	50.0	0.00	76.4	18-159		3.25	39	
Cyclohexane	38.6		"	50.0	0.00	77.1	70-130		0.0778	30	
Dibromochloromethane	37.3		"	50.0	0.00	74.6	10-179		5.17	41	
Dibromomethane	42.8		"	50.0	0.00	85.6	47-143		3.61	41	
Dichlorodifluoromethane	38.0		"	50.0	0.00	76.0	10-145		1.18	34	
Ethyl Benzene	43.0		"	50.0	0.00	86.0	11-158		1.00	42	
Hexachlorobutadiene	22.3		"	50.0	0.00	44.6	10-158		3.05	45	
Isopropylbenzene	40.6		"	50.0	0.00	81.2	10-162		0.0493	57	
Methyl acetate	41.6		"	50.0	0.00	83.1	10-149		2.36	64	
Methyl tert-butyl ether (MTBE)	39.9		"	50.0	0.00	79.9	42-152		4.74	47	
Methylcyclohexane	33.1		"	50.0	0.00	66.2	70-130	Low Bias	2.27	30	
Methylene chloride	48.8		"	50.0	11.3	75.1	28-151		2.17	49	
n-Butylbenzene	33.1		"	50.0	0.00	66.3	10-162		2.94	96	
n-Propylbenzene	38.6		"	50.0	0.00	77.2	10-155		1.26	56	
o-Xylene	41.8		"	50.0	0.00	83.5	10-158		1.50	51	
p- & m- Xylenes	85.6		"	100	0.00	85.6	10-156		0.504	47	
p-Isopropyltoluene	37.2		"	50.0	0.00	74.4	10-147		1.86	60	
sec-Butylbenzene	36.1		"	50.0	0.00	72.2	10-157		1.59	56	
Styrene	39.2		"	50.0	0.00	78.4	13-171		0.102	39	
tert-Butyl alcohol (TBA)	198		"	250	0.00	79.3	34-179		11.2	35	
tert-Butylbenzene	38.2		"	50.0	0.00	76.4	10-160		0.860	79	
Tetrachloroethylene	25.2		"	50.0	0.00	50.3	30-167		0.0795	33	
Toluene	42.3		"	50.0	0.00	84.5	21-160		1.86	50	
trans-1,2-Dichloroethylene	40.4		"	50.0	0.00	80.8	29-153		1.80	30	
trans-1,3-Dichloropropylene	36.6		"	50.0	0.00	73.2	18-155		3.56	30	
Trichloroethylene	41.2		"	50.0	0.00	82.4	24-169		1.49	30	
Trichlorofluoromethane	40.6		"	50.0	0.00	81.3	35-142		0.394	30	
Vinyl Chloride	40.4		"	50.0	0.00	80.9	12-160		2.23	35	
Surrogate: SURRE: 1,2-Dichloroethane-d4	50.0		"	50.0		100	77-125				
Surrogate: SURRE: Toluene-d8	51.8		"	50.0		104	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	50.0		"	50.0		100	76-130				



**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
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**Batch BL30368 - EPA 5030B/1311**

**Blank (BL30368-BLK1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	ND	0.0050	mg/L								
1,2-Dichloroethane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
Benzene	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.0		ug/L	50.0		98.1	77-125				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	54.7		"	50.0		109	76-130				
<i>Surrogate: SURR: Toluene-d8</i>	52.6		"	50.0		105	85-120				

**LCS (BL30368-BS1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	45		ug/L	50.0		90.6	68-134				
1,2-Dichloroethane	47		"	50.0		93.9	69-133				
1,4-Dichlorobenzene	49		"	50.0		97.9	82-124				
2-Butanone	42		"	50.0		83.3	44-169				
Benzene	46		"	50.0		91.5	72-134				
Carbon tetrachloride	44		"	50.0		87.9	62-145				
Chlorobenzene	49		"	50.0		98.9	85-119				
Chloroform	44		"	50.0		87.8	74-131				
Tetrachloroethylene	31		"	50.0		62.6	78-133	Low Bias			
Trichloroethylene	47		"	50.0		95.0	81-125				
Vinyl Chloride	47		"	50.0		93.2	42-136				

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.9		"	50.0		99.7	77-125				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	53.6		"	50.0		107	76-130				
<i>Surrogate: SURR: Toluene-d8</i>	52.9		"	50.0		106	85-120				



**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
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**Batch BL30368 - EPA 5030B/1311**

**LCS Dup (BL30368-BSD1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	45		ug/L	50.0		90.6	68-134		0.0883	30	
1,2-Dichloroethane	46		"	50.0		91.9	69-133		2.09	30	
1,4-Dichlorobenzene	50		"	50.0		101	82-124		2.68	30	
2-Butanone	38		"	50.0		76.4	44-169		8.59	30	
Benzene	46		"	50.0		92.1	72-134		0.719	30	
Carbon tetrachloride	44		"	50.0		88.4	62-145		0.522	30	
Chlorobenzene	50		"	50.0		100	85-119		1.53	30	
Chloroform	44		"	50.0		88.2	74-131		0.455	30	
Tetrachloroethylene	32		"	50.0		63.8	78-133	Low Bias	1.87	30	
Trichloroethylene	49		"	50.0		98.6	81-125		3.72	30	
Vinyl Chloride	47		"	50.0		94.9	42-136		1.79	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.2</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>54.6</i>		<i>"</i>	<i>50.0</i>		<i>109</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.5</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>85-120</i>				

**Leach Fluid Blank (BL30368-LBK1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	ND	0.050	mg/L								
1,2-Dichloroethane	ND	0.050	"								
1,4-Dichlorobenzene	ND	0.050	"								
2-Butanone	ND	0.050	"								
Benzene	ND	0.050	"								
Carbon tetrachloride	ND	0.050	"								
Chlorobenzene	ND	0.050	"								
Chloroform	ND	0.050	"								
Tetrachloroethylene	ND	0.050	"								
Trichloroethylene	ND	0.050	"								
Vinyl Chloride	ND	0.050	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>48.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.0</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>55.9</i>		<i>"</i>	<i>50.0</i>		<i>112</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.1</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				



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
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Batch BL30387 - EPA 5035A

Blank (BL30387-BLK1)

Prepared & Analyzed: 12/07/2023

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



**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
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**Batch BL30387 - EPA 5035A**

**Blank (BL30387-BLK1)**

Prepared & Analyzed: 12/07/2023

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	51.7		ug/L	50.0		103	77-125				
Surrogate: SURRE: Toluene-d8	53.0		"	50.0		106	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	52.7		"	50.0		105	76-130				

**Blank (BL30387-BLK2)**

Prepared & Analyzed: 12/07/2023

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								





**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

**Batch BL30387 - EPA 5035A**

**Blank (BL30387-BLK2)**

Prepared & Analyzed: 12/07/2023

Bromodichloromethane	ND	0.50	mg/kg wet								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	<i>51.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>		<i>77-125</i>			
<i>Surrogate: Surr: Toluene-d8</i>	<i>53.1</i>		<i>"</i>	<i>50.0</i>		<i>106</i>		<i>85-120</i>			
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	<i>52.6</i>		<i>"</i>	<i>50.0</i>		<i>105</i>		<i>76-130</i>			



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	
<b>Batch BL30387 - EPA 5035A</b>											
<b>LCS (BL30387-BS1)</b>											
Prepared & Analyzed: 12/07/2023											
1,1,1,2-Tetrachloroethane	43.7		ug/L	50.0		87.4		75-129			
1,1,1-Trichloroethane	46.8		"	50.0		93.6		71-137			
1,1,2,2-Tetrachloroethane	53.5		"	50.0		107		79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.6		"	50.0		93.2		58-146			
1,1,2-Trichloroethane	46.9		"	50.0		93.9		83-123			
1,1-Dichloroethane	45.5		"	50.0		90.9		75-130			
1,1-Dichloroethylene	51.0		"	50.0		102		64-137			
1,2,3-Trichlorobenzene	44.9		"	50.0		89.8		81-140			
1,2,3-Trichloropropane	49.9		"	50.0		99.8		81-126			
1,2,4-Trichlorobenzene	45.9		"	50.0		91.7		80-141			
1,2,4-Trimethylbenzene	52.2		"	50.0		104		84-125			
1,2-Dibromo-3-chloropropane	44.6		"	50.0		89.1		74-142			
1,2-Dibromoethane	49.1		"	50.0		98.2		86-123			
1,2-Dichlorobenzene	49.5		"	50.0		98.9		85-122			
1,2-Dichloroethane	48.2		"	50.0		96.4		71-133			
1,2-Dichloropropane	49.8		"	50.0		99.7		81-122			
1,3,5-Trimethylbenzene	51.5		"	50.0		103		82-126			
1,3-Dichlorobenzene	49.6		"	50.0		99.2		84-124			
1,4-Dichlorobenzene	48.7		"	50.0		97.3		84-124			
1,4-Dioxane	435		"	1050		41.4		10-228			
2-Butanone	44.1		"	50.0		88.3		58-147			
2-Hexanone	49.3		"	50.0		98.6		70-139			
4-Methyl-2-pentanone	51.6		"	50.0		103		72-132			
Acetone	35.8		"	50.0		71.6		36-155			
Acrolein	46.9		"	50.0		93.8		10-238			
Acrylonitrile	48.9		"	50.0		97.9		66-141			
Benzene	46.8		"	50.0		93.7		77-127			
Bromochloromethane	48.9		"	50.0		97.9		74-129			
Bromodichloromethane	46.2		"	50.0		92.3		81-124			
Bromoform	40.6		"	50.0		81.1		80-136			
Bromomethane	49.9		"	50.0		99.8		32-177			
Carbon disulfide	50.9		"	50.0		102		10-136			
Carbon tetrachloride	43.5		"	50.0		87.1		66-143			
Chlorobenzene	48.1		"	50.0		96.2		86-120			
Chloroethane	51.5		"	50.0		103		51-142			
Chloroform	45.3		"	50.0		90.5		76-131			
Chloromethane	57.6		"	50.0		115		49-132			
cis-1,2-Dichloroethylene	46.7		"	50.0		93.5		74-132			
cis-1,3-Dichloropropylene	44.6		"	50.0		89.3		81-129			
Cyclohexane	48.2		"	50.0		96.4		70-130			
Dibromochloromethane	43.4		"	50.0		86.7		10-200			
Dibromomethane	49.5		"	50.0		99.0		83-124			
Dichlorodifluoromethane	67.0		"	50.0		134		28-158			
Ethyl Benzene	53.0		"	50.0		106		84-125			
Hexachlorobutadiene	47.6		"	50.0		95.3		83-133			
Isopropylbenzene	49.6		"	50.0		99.1		81-127			
Methyl acetate	44.3		"	50.0		88.6		41-143			
Methyl tert-butyl ether (MTBE)	43.2		"	50.0		86.4		74-131			
Methylcyclohexane	45.9		"	50.0		91.8		70-130			
Methylene chloride	47.5		"	50.0		94.9		57-141			



**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
<b>Batch BL30387 - EPA 5035A</b>											
<b>LCS (BL30387-BS1)</b>											
Prepared & Analyzed: 12/07/2023											
n-Butylbenzene	53.0		ug/L	50.0		106	80-130				
n-Propylbenzene	51.1		"	50.0		102	74-136				
o-Xylene	50.6		"	50.0		101	83-123				
p- & m- Xylenes	108		"	100		108	82-128				
p-Isopropyltoluene	52.6		"	50.0		105	85-125				
sec-Butylbenzene	50.2		"	50.0		100	83-125				
Styrene	50.6		"	50.0		101	86-126				
tert-Butyl alcohol (TBA)	209		"	250		83.7	70-130				
tert-Butylbenzene	48.6		"	50.0		97.2	80-127				
Tetrachloroethylene	31.5		"	50.0		62.9	80-129	Low Bias			
Toluene	49.5		"	50.0		98.9	85-121				
trans-1,2-Dichloroethylene	47.6		"	50.0		95.3	72-132				
trans-1,3-Dichloropropylene	44.2		"	50.0		88.4	78-132				
Trichloroethylene	48.5		"	50.0		97.1	84-123				
Trichlorofluoromethane	54.0		"	50.0		108	62-140				
Vinyl Chloride	53.8		"	50.0		108	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	52.4		"	50.0		105	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	52.0		"	50.0		104	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	49.9		"	50.0		99.8	76-130				
<b>LCS Dup (BL30387-BSD1)</b>											
Prepared & Analyzed: 12/07/2023											
1,1,1,2-Tetrachloroethane	47.7		ug/L	50.0		95.3	75-129		8.69	30	
1,1,1-Trichloroethane	50.7		"	50.0		101	71-137		8.08	30	
1,1,2,2-Tetrachloroethane	58.7		"	50.0		117	79-129		9.24	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.4		"	50.0		101	58-146		7.80	30	
1,1,2-Trichloroethane	51.3		"	50.0		103	83-123		8.80	30	
1,1-Dichloroethane	48.9		"	50.0		97.7	75-130		7.19	30	
1,1-Dichloroethylene	54.5		"	50.0		109	64-137		6.59	30	
1,2,3-Trichlorobenzene	49.0		"	50.0		97.9	81-140		8.72	30	
1,2,3-Trichloropropane	54.6		"	50.0		109	81-126		8.96	30	
1,2,4-Trichlorobenzene	49.4		"	50.0		98.8	80-141		7.47	30	
1,2,4-Trimethylbenzene	56.3		"	50.0		113	84-125		7.50	30	
1,2-Dibromo-3-chloropropane	51.4		"	50.0		103	74-142		14.3	30	
1,2-Dibromoethane	53.5		"	50.0		107	86-123		8.60	30	
1,2-Dichlorobenzene	53.3		"	50.0		107	85-122		7.45	30	
1,2-Dichloroethane	51.9		"	50.0		104	71-133		7.33	30	
1,2-Dichloropropane	53.7		"	50.0		107	81-122		7.51	30	
1,3,5-Trimethylbenzene	55.6		"	50.0		111	82-126		7.66	30	
1,3-Dichlorobenzene	53.9		"	50.0		108	84-124		8.23	30	
1,4-Dichlorobenzene	52.7		"	50.0		105	84-124		7.89	30	
1,4-Dioxane	481		"	1050		45.8	10-228		10.1	30	
2-Butanone	48.3		"	50.0		96.6	58-147		9.00	30	
2-Hexanone	54.6		"	50.0		109	70-139		10.2	30	
4-Methyl-2-pentanone	57.6		"	50.0		115	72-132		11.0	30	
Acetone	38.3		"	50.0		76.7	36-155		6.77	30	
Acrolein	52.1		"	50.0		104	10-238		10.6	30	
Acrylonitrile	53.6		"	50.0		107	66-141		9.07	30	
Benzene	50.3		"	50.0		101	77-127		7.10	30	
Bromochloromethane	52.2		"	50.0		104	74-129		6.39	30	
Bromodichloromethane	50.0		"	50.0		99.9	81-124		7.91	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
<b>Batch BL30387 - EPA 5035A</b>											
<b>LCS Dup (BL30387-BSD1)</b>											
Prepared & Analyzed: 12/07/2023											
Bromoform	45.4		ug/L	50.0		90.8	80-136		11.3	30	
Bromomethane	53.9		"	50.0		108	32-177		7.74	30	
Carbon disulfide	54.8		"	50.0		110	10-136		7.51	30	
Carbon tetrachloride	47.1		"	50.0		94.1	66-143		7.79	30	
Chlorobenzene	52.1		"	50.0		104	86-120		7.99	30	
Chloroethane	55.3		"	50.0		111	51-142		7.11	30	
Chloroform	48.8		"	50.0		97.5	76-131		7.40	30	
Chloromethane	60.4		"	50.0		121	49-132		4.82	30	
cis-1,2-Dichloroethylene	50.2		"	50.0		100	74-132		7.08	30	
cis-1,3-Dichloropropylene	48.6		"	50.0		97.3	81-129		8.58	30	
Cyclohexane	51.6		"	50.0		103	70-130		6.84	30	
Dibromochloromethane	47.7		"	50.0		95.3	10-200		9.49	30	
Dibromomethane	53.8		"	50.0		108	83-124		8.27	30	
Dichlorodifluoromethane	70.9		"	50.0		142	28-158		5.58	30	
Ethyl Benzene	57.3		"	50.0		115	84-125		7.65	30	
Hexachlorobutadiene	52.4		"	50.0		105	83-133		9.46	30	
Isopropylbenzene	53.6		"	50.0		107	81-127		7.93	30	
Methyl acetate	48.0		"	50.0		96.0	41-143		8.01	30	
Methyl tert-butyl ether (MTBE)	47.3		"	50.0		94.5	74-131		8.98	30	
Methylcyclohexane	49.6		"	50.0		99.2	70-130		7.71	30	
Methylene chloride	50.5		"	50.0		101	57-141		6.11	30	
n-Butylbenzene	56.8		"	50.0		114	80-130		7.00	30	
n-Propylbenzene	54.8		"	50.0		110	74-136		6.97	30	
o-Xylene	54.6		"	50.0		109	83-123		7.54	30	
p- & m- Xylenes	116		"	100		116	82-128		7.30	30	
p-Isopropyltoluene	57.0		"	50.0		114	85-125		7.99	30	
sec-Butylbenzene	54.6		"	50.0		109	83-125		8.36	30	
Styrene	54.9		"	50.0		110	86-126		8.08	30	
tert-Butyl alcohol (TBA)	238		"	250		95.2	70-130		12.8	30	
tert-Butylbenzene	52.7		"	50.0		105	80-127		8.13	30	
Tetrachloroethylene	34.3		"	50.0		68.6	80-129	Low Bias	8.61	30	
Toluene	53.2		"	50.0		106	85-121		7.34	30	
trans-1,2-Dichloroethylene	51.1		"	50.0		102	72-132		6.93	30	
trans-1,3-Dichloropropylene	48.1		"	50.0		96.3	78-132		8.51	30	
Trichloroethylene	52.6		"	50.0		105	84-123		8.05	30	
Trichlorofluoromethane	57.2		"	50.0		114	62-140		5.70	30	
Vinyl Chloride	57.1		"	50.0		114	52-130		6.00	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	52.1		"	50.0		104	77-125				
Surrogate: SURRE: Toluene-d8	52.0		"	50.0		104	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	49.9		"	50.0		99.8	76-130				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	
<b>Batch BL30387 - EPA 5035A</b>											
<b>Matrix Spike (BL30387-MS1)</b>	*Source sample: 23L0105-01 (Matrix Spike)						Prepared & Analyzed: 12/07/2023				
1,1,1,2-Tetrachloroethane	34.1		ug/L	50.0	0.00	68.2	15-161				
1,1,1-Trichloroethane	37.6		"	50.0	0.00	75.2	42-145				
1,1,2,2-Tetrachloroethane	42.3		"	50.0	0.00	84.6	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	34.2		"	50.0	0.00	68.3	11-160				
1,1,2-Trichloroethane	39.6		"	50.0	0.00	79.2	44-145				
1,1-Dichloroethane	38.3		"	50.0	0.00	76.6	46-142				
1,1-Dichloroethylene	39.8		"	50.0	0.00	79.5	30-153				
1,2,3-Trichlorobenzene	20.4		"	50.0	0.00	40.9	10-157				
1,2,3-Trichloropropane	40.9		"	50.0	0.00	81.7	38-155				
1,2,4-Trichlorobenzene	20.8		"	50.0	0.00	41.5	10-151				
1,2,4-Trimethylbenzene	32.9		"	50.0	0.00	65.9	10-170				
1,2-Dibromo-3-chloropropane	33.8		"	50.0	0.00	67.5	36-138				
1,2-Dibromoethane	39.7		"	50.0	0.00	79.5	40-142				
1,2-Dichlorobenzene	32.0		"	50.0	0.00	64.0	10-147				
1,2-Dichloroethane	41.9		"	50.0	0.00	83.7	48-133				
1,2-Dichloropropane	41.9		"	50.0	0.00	83.8	47-141				
1,3,5-Trimethylbenzene	33.5		"	50.0	0.00	67.1	10-150				
1,3-Dichlorobenzene	30.3		"	50.0	0.00	60.6	10-144				
1,4-Dichlorobenzene	29.9		"	50.0	0.00	59.7	10-160				
1,4-Dioxane	382		"	1050	0.00	36.4	10-191				
2-Butanone	36.3		"	50.0	0.00	72.6	10-189				
2-Hexanone	30.8		"	50.0	0.00	61.6	10-181				
4-Methyl-2-pentanone	39.2		"	50.0	0.00	78.5	10-166				
Acetone	33.4		"	50.0	0.00	66.7	10-196				
Acrolein	1.22		"	50.0	0.00	2.44	10-192	Low Bias			
Acrylonitrile	38.0		"	50.0	0.00	76.0	13-161				
Benzene	38.9		"	50.0	0.00	77.7	43-139				
Bromochloromethane	42.1		"	50.0	0.00	84.1	38-145				
Bromodichloromethane	38.1		"	50.0	0.00	76.1	38-147				
Bromoform	30.4		"	50.0	0.00	60.7	29-156				
Bromomethane	39.2		"	50.0	0.00	78.4	10-166				
Carbon disulfide	35.1		"	50.0	0.00	70.2	10-131				
Carbon tetrachloride	33.4		"	50.0	0.00	66.7	35-145				
Chlorobenzene	36.2		"	50.0	0.00	72.5	21-154				
Chloroethane	41.9		"	50.0	0.00	83.8	15-160				
Chloroform	38.5		"	50.0	0.00	76.9	47-142				
Chloromethane	41.0		"	50.0	0.00	82.0	10-159				
cis-1,2-Dichloroethylene	38.7		"	50.0	0.00	77.4	42-144				
cis-1,3-Dichloropropylene	35.6		"	50.0	0.00	71.2	18-159				
Cyclohexane	34.4		"	50.0	0.00	68.9	70-130	Low Bias			
Dibromochloromethane	34.8		"	50.0	0.00	69.5	10-179				
Dibromomethane	41.1		"	50.0	0.00	82.2	47-143				
Dichlorodifluoromethane	33.8		"	50.0	0.00	67.7	10-145				
Ethyl Benzene	38.8		"	50.0	0.00	77.6	11-158				
Hexachlorobutadiene	16.8		"	50.0	0.00	33.5	10-158				
Isopropylbenzene	34.2		"	50.0	0.00	68.3	10-162				
Methyl acetate	45.4		"	50.0	0.00	90.8	10-149				
Methyl tert-butyl ether (MTBE)	37.3		"	50.0	0.00	74.6	42-152				
Methylcyclohexane	28.1		"	50.0	0.00	56.2	70-130	Low Bias			
Methylene chloride	41.7		"	50.0	2.22	78.9	28-151				



**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
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**Batch BL30387 - EPA 5035A**

<b>Matrix Spike (BL30387-MS1)</b>	<b>*Source sample: 23L0105-01 (Matrix Spike)</b>						<b>Prepared &amp; Analyzed: 12/07/2023</b>				
n-Butylbenzene	27.2		ug/L	50.0	0.00	54.5	10-162				
n-Propylbenzene	33.4		"	50.0	0.00	66.9	10-155				
o-Xylene	37.4		"	50.0	0.00	74.8	10-158				
p- & m- Xylenes	76.8		"	100	0.00	76.8	10-156				
p-Isopropyltoluene	28.3		"	50.0	0.00	56.7	10-147				
sec-Butylbenzene	29.1		"	50.0	0.00	58.3	10-157				
Styrene	36.0		"	50.0	0.00	72.1	13-171				
tert-Butyl alcohol (TBA)	179		"	250	0.00	71.7	34-179				
tert-Butylbenzene	31.0		"	50.0	0.00	62.0	10-160				
Tetrachloroethylene	21.7		"	50.0	0.00	43.4	30-167				
Toluene	38.6		"	50.0	0.00	77.3	21-160				
trans-1,2-Dichloroethylene	37.4		"	50.0	0.00	74.9	29-153				
trans-1,3-Dichloropropylene	33.5		"	50.0	0.00	67.0	18-155				
Trichloroethylene	37.6		"	50.0	0.00	75.3	24-169				
Trichlorofluoromethane	41.8		"	50.0	0.00	83.6	35-142				
Vinyl Chloride	40.3		"	50.0	0.00	80.6	12-160				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>52.9</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>51.9</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>				

**Batch BL30498 - EPA 5035A**

<b>Blank (BL30498-BLK1)</b>	<b>Prepared &amp; Analyzed: 12/08/2023</b>										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

**Batch BL30498 - EPA 5035A**

**Blank (BL30498-BLK1)**

Prepared & Analyzed: 12/08/2023

Bromodichloromethane	ND	0.0050	mg/kg wet								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	53.0		ug/L	50.0	106	77-125
Surrogate: SURRE: Toluene-d8	52.8		"	50.0	106	85-120
Surrogate: SURRE: p-Bromofluorobenzene	52.2		"	50.0	104	76-130



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
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Batch BL30498 - EPA 5035A

Blank (BL30498-BLK2)

Prepared & Analyzed: 12/08/2023

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								





**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
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**Batch BL30498 - EPA 5035A**

**Blank (BL30498-BLK2)**

Prepared & Analyzed: 12/08/2023

n-Butylbenzene	ND	0.50	mg/kg wet								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								

<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	52.9		ug/L	50.0		106	77-125				
<i>Surrogate: SURRE: Toluene-d8</i>	53.1		"	50.0		106	85-120				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	52.1		"	50.0		104	76-130				

**LCS (BL30498-BS1)**

Prepared & Analyzed: 12/08/2023

1,1,1,2-Tetrachloroethane	43.7		ug/L	50.0		87.5	75-129				
1,1,1-Trichloroethane	46.7		"	50.0		93.3	71-137				
1,1,2,2-Tetrachloroethane	52.6		"	50.0		105	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.2		"	50.0		92.3	58-146				
1,1,2-Trichloroethane	45.8		"	50.0		91.7	83-123				
1,1-Dichloroethane	45.4		"	50.0		90.9	75-130				
1,1-Dichloroethylene	50.8		"	50.0		102	64-137				
1,2,3-Trichlorobenzene	43.8		"	50.0		87.5	81-140				
1,2,3-Trichloropropane	49.1		"	50.0		98.3	81-126				
1,2,4-Trichlorobenzene	44.7		"	50.0		89.5	80-141				
1,2,4-Trimethylbenzene	52.8		"	50.0		106	84-125				
1,2-Dibromo-3-chloropropane	44.2		"	50.0		88.3	74-142				
1,2-Dibromoethane	47.6		"	50.0		95.1	86-123				
1,2-Dichlorobenzene	49.3		"	50.0		98.5	85-122				
1,2-Dichloroethane	47.8		"	50.0		95.6	71-133				
1,2-Dichloropropane	49.9		"	50.0		99.8	81-122				
1,3,5-Trimethylbenzene	52.3		"	50.0		105	82-126				
1,3-Dichlorobenzene	50.0		"	50.0		100	84-124				
1,4-Dichlorobenzene	48.3		"	50.0		96.5	84-124				
1,4-Dioxane	397		"	1050		37.8	10-228				
2-Butanone	42.5		"	50.0		85.1	58-147				
2-Hexanone	47.6		"	50.0		95.3	70-139				
4-Methyl-2-pentanone	50.6		"	50.0		101	72-132				
Acetone	34.2		"	50.0		68.4	36-155				
Acrolein	45.1		"	50.0		90.1	10-238				
Acrylonitrile	47.1		"	50.0		94.1	66-141				
Benzene	46.5		"	50.0		93.0	77-127				
Bromochloromethane	48.4		"	50.0		96.7	74-129				



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL30498 - EPA 5035A**

**LCS (BL30498-BS1)**

Prepared & Analyzed: 12/08/2023

Bromodichloromethane	46.1		ug/L	50.0		92.2	81-124						
Bromoform	38.9		"	50.0		77.7	80-136		Low Bias				
Bromomethane	53.6		"	50.0		107	32-177						
Carbon disulfide	49.6		"	50.0		99.1	10-136						
Carbon tetrachloride	44.0		"	50.0		87.9	66-143						
Chlorobenzene	48.1		"	50.0		96.2	86-120						
Chloroethane	53.4		"	50.0		107	51-142						
Chloroform	45.0		"	50.0		90.0	76-131						
Chloromethane	55.8		"	50.0		112	49-132						
cis-1,2-Dichloroethylene	46.5		"	50.0		93.1	74-132						
cis-1,3-Dichloropropylene	44.2		"	50.0		88.4	81-129						
Cyclohexane	48.3		"	50.0		96.5	70-130						
Dibromochloromethane	42.6		"	50.0		85.2	10-200						
Dibromomethane	48.4		"	50.0		96.8	83-124						
Dichlorodifluoromethane	61.4		"	50.0		123	28-158						
Ethyl Benzene	53.6		"	50.0		107	84-125						
Hexachlorobutadiene	48.1		"	50.0		96.2	83-133						
Isopropylbenzene	50.3		"	50.0		101	81-127						
Methyl acetate	42.9		"	50.0		85.9	41-143						
Methyl tert-butyl ether (MTBE)	41.3		"	50.0		82.5	74-131						
Methylcyclohexane	46.0		"	50.0		91.9	70-130						
Methylene chloride	48.9		"	50.0		97.7	57-141						
n-Butylbenzene	54.2		"	50.0		108	80-130						
n-Propylbenzene	52.1		"	50.0		104	74-136						
o-Xylene	50.8		"	50.0		102	83-123						
p- & m- Xylenes	110		"	100		110	82-128						
p-Isopropyltoluene	53.4		"	50.0		107	85-125						
sec-Butylbenzene	51.2		"	50.0		102	83-125						
Styrene	50.3		"	50.0		101	86-126						
tert-Butyl alcohol (TBA)	194		"	250		77.7	70-130						
tert-Butylbenzene	49.3		"	50.0		98.5	80-127						
Tetrachloroethylene	31.4		"	50.0		62.8	80-129		Low Bias				
Toluene	49.6		"	50.0		99.2	85-121						
trans-1,2-Dichloroethylene	47.7		"	50.0		95.4	72-132						
trans-1,3-Dichloropropylene	43.4		"	50.0		86.7	78-132						
Trichloroethylene	48.6		"	50.0		97.2	84-123						
Trichlorofluoromethane	56.0		"	50.0		112	62-140						
Vinyl Chloride	54.6		"	50.0		109	52-130						
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>77-125</i>						
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.6</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>85-120</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>						



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
<b>Batch BL30498 - EPA 5035A</b>											
<b>LCS Dup (BL30498-BSD1)</b>											
Prepared & Analyzed: 12/08/2023											
1,1,1,2-Tetrachloroethane	46.4		ug/L	50.0		92.7	75-129		5.82	30	
1,1,1-Trichloroethane	49.5		"	50.0		99.0	71-137		5.89	30	
1,1,2,2-Tetrachloroethane	56.0		"	50.0		112	79-129		6.28	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49.3		"	50.0		98.6	58-146		6.52	30	
1,1,2-Trichloroethane	49.8		"	50.0		99.5	83-123		8.22	30	
1,1-Dichloroethane	48.0		"	50.0		96.0	75-130		5.50	30	
1,1-Dichloroethylene	53.4		"	50.0		107	64-137		5.07	30	
1,2,3-Trichlorobenzene	46.9		"	50.0		93.8	81-140		6.97	30	
1,2,3-Trichloropropane	52.5		"	50.0		105	81-126		6.57	30	
1,2,4-Trichlorobenzene	47.3		"	50.0		94.6	80-141		5.61	30	
1,2,4-Trimethylbenzene	54.2		"	50.0		108	84-125		2.67	30	
1,2-Dibromo-3-chloropropane	48.1		"	50.0		96.2	74-142		8.54	30	
1,2-Dibromoethane	51.8		"	50.0		104	86-123		8.44	30	
1,2-Dichlorobenzene	51.6		"	50.0		103	85-122		4.70	30	
1,2-Dichloroethane	51.2		"	50.0		102	71-133		6.93	30	
1,2-Dichloropropane	52.4		"	50.0		105	81-122		4.79	30	
1,3,5-Trimethylbenzene	54.0		"	50.0		108	82-126		3.22	30	
1,3-Dichlorobenzene	51.8		"	50.0		104	84-124		3.54	30	
1,4-Dichlorobenzene	50.6		"	50.0		101	84-124		4.77	30	
1,4-Dioxane	450		"	1050		42.9	10-228		12.6	30	
2-Butanone	48.4		"	50.0		96.8	58-147		12.9	30	
2-Hexanone	53.0		"	50.0		106	70-139		10.6	30	
4-Methyl-2-pentanone	55.6		"	50.0		111	72-132		9.50	30	
Acetone	38.3		"	50.0		76.6	36-155		11.2	30	
Acrolein	50.6		"	50.0		101	10-238		11.7	30	
Acrylonitrile	52.2		"	50.0		104	66-141		10.3	30	
Benzene	49.1		"	50.0		98.3	77-127		5.52	30	
Bromochloromethane	51.9		"	50.0		104	74-129		7.04	30	
Bromodichloromethane	48.7		"	50.0		97.4	81-124		5.51	30	
Bromoform	42.8		"	50.0		85.6	80-136		9.62	30	
Bromomethane	54.9		"	50.0		110	32-177		2.38	30	
Carbon disulfide	52.5		"	50.0		105	10-136		5.69	30	
Carbon tetrachloride	46.1		"	50.0		92.2	66-143		4.73	30	
Chlorobenzene	50.7		"	50.0		101	86-120		5.22	30	
Chloroethane	55.6		"	50.0		111	51-142		4.02	30	
Chloroform	47.8		"	50.0		95.7	76-131		6.07	30	
Chloromethane	57.0		"	50.0		114	49-132		2.00	30	
cis-1,2-Dichloroethylene	49.2		"	50.0		98.4	74-132		5.60	30	
cis-1,3-Dichloropropylene	47.1		"	50.0		94.2	81-129		6.33	30	
Cyclohexane	50.4		"	50.0		101	70-130		4.30	30	
Dibromochloromethane	45.7		"	50.0		91.5	10-200		7.16	30	
Dibromomethane	52.5		"	50.0		105	83-124		8.16	30	
Dichlorodifluoromethane	61.3		"	50.0		123	28-158		0.0815	30	
Ethyl Benzene	56.0		"	50.0		112	84-125		4.27	30	
Hexachlorobutadiene	50.8		"	50.0		102	83-133		5.44	30	
Isopropylbenzene	52.0		"	50.0		104	81-127		3.36	30	
Methyl acetate	47.3		"	50.0		94.7	41-143		9.75	30	
Methyl tert-butyl ether (MTBE)	45.4		"	50.0		90.8	74-131		9.60	30	
Methylcyclohexane	47.7		"	50.0		95.4	70-130		3.74	30	
Methylene chloride	51.4		"	50.0		103	57-141		5.05	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
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**Batch BL30498 - EPA 5035A**

**LCS Dup (BL30498-BSD1)**

Prepared & Analyzed: 12/08/2023

n-Butylbenzene	55.1		ug/L	50.0		110	80-130		1.72	30	
n-Propylbenzene	53.3		"	50.0		107	74-136		2.43	30	
o-Xylene	53.3		"	50.0		107	83-123		4.78	30	
p- & m- Xylenes	114		"	100		114	82-128		3.88	30	
p-Isopropyltoluene	55.0		"	50.0		110	85-125		2.97	30	
sec-Butylbenzene	52.4		"	50.0		105	83-125		2.47	30	
Styrene	53.0		"	50.0		106	86-126		5.17	30	
tert-Butyl alcohol (TBA)	224		"	250		89.6	70-130		14.2	30	
tert-Butylbenzene	51.1		"	50.0		102	80-127		3.57	30	
Tetrachloroethylene	33.1		"	50.0		66.2	80-129	Low Bias	5.21	30	
Toluene	51.9		"	50.0		104	85-121		4.59	30	
trans-1,2-Dichloroethylene	50.2		"	50.0		100	72-132		5.01	30	
trans-1,3-Dichloropropylene	46.8		"	50.0		93.7	78-132		7.67	30	
Trichloroethylene	51.0		"	50.0		102	84-123		4.92	30	
Trichlorofluoromethane	57.7		"	50.0		115	62-140		2.89	30	
Vinyl Chloride	56.5		"	50.0		113	52-130		3.33	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>53.0</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.1</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.4</i>	<i>76-130</i>				



Semivolatile 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
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Batch BL30084 - EPA 3510C/1311

Blank (BL30084-BLK1)

Prepared: 12/03/2023 Analyzed: 12/04/2023

1,4-Dichlorobenzene	ND	0.00500	mg/L								
2,4,5-Trichlorophenol	ND	0.00500	"								
2,4,6-Trichlorophenol	ND	0.00500	"								
2,4-Dinitrotoluene	ND	0.00500	"								
2-Methylphenol	ND	0.00500	"								
3- & 4-Methylphenols	ND	0.0100	"								
Cresols, total	ND	0.0150	"								
Hexachlorobenzene	ND	0.00500	"								
Hexachlorobutadiene	ND	0.00500	"								
Hexachloroethane	ND	0.00500	"								
Nitrobenzene	ND	0.00500	"								
Pentachlorophenol	ND	0.00500	"								
Pyridine	ND	0.00500	"								

Surrogate: SURRE: 2-Fluorophenol	0.0257		"	0.0500		51.4	10-90.9				
Surrogate: SURRE: Phenol-d6	0.0182		"	0.0500		36.4	10-69.2				
Surrogate: SURRE: Nitrobenzene-d5	0.0178		"	0.0250		71.4	19.2-141				
Surrogate: SURRE: 2-Fluorobiphenyl	0.0202		"	0.0250		80.8	24.8-127				
Surrogate: SURRE: 2,4,6-Tribromophenol	0.0582		"	0.0500		116	23-163				
Surrogate: SURRE: Terphenyl-d14	0.0252		"	0.0250		101	25.8-110				

LCS (BL30084-BS1)

Prepared: 12/03/2023 Analyzed: 12/05/2023

1,4-Dichlorobenzene	0.0188	0.00500	mg/L	0.0250		75.4	42.7-102				
2,4,5-Trichlorophenol	0.0280	0.00500	"	0.0250		112	33-141				
2,4,6-Trichlorophenol	0.0288	0.00500	"	0.0250		115	35-138				
2,4-Dinitrotoluene	0.0290	0.00500	"	0.0250		116	38.6-153				
2-Methylphenol	0.0217	0.00500	"	0.0250		86.7	34.7-106				
3- & 4-Methylphenols	0.0180	0.0100	"	0.0250		72.2	30.1-94				
Cresols, total	0.0397	0.0150	"	0.0500		79.4	30.1-106				
Hexachlorobenzene	0.0254	0.00500	"	0.0250		102	38.9-109				
Hexachlorobutadiene	0.0193	0.00500	"	0.0250		77.4	24.3-132				
Hexachloroethane	0.0173	0.00500	"	0.0250		69.4	36.7-102				
Nitrobenzene	0.0246	0.00500	"	0.0250		98.5	33.3-122				
Pentachlorophenol	0.0372	0.00500	"	0.0250		149	22.2-137			High Bias	
Pyridine	ND	0.00500	"	0.0350			14.9-73.5			Low Bias	

Surrogate: SURRE: 2-Fluorophenol	0.0336		"	0.0500		67.3	10-90.9				
Surrogate: SURRE: Phenol-d6	0.0207		"	0.0500		41.4	10-69.2				
Surrogate: SURRE: Nitrobenzene-d5	0.0225		"	0.0250		90.0	19.2-141				
Surrogate: SURRE: 2-Fluorobiphenyl	0.0195		"	0.0250		78.0	24.8-127				
Surrogate: SURRE: 2,4,6-Tribromophenol	0.0658		"	0.0500		132	23-163				
Surrogate: SURRE: Terphenyl-d14	0.0241		"	0.0250		96.4	25.8-110				



Semivolatile 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
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Batch BL30084 - EPA 3510C/1311

LCS Dup (BL30084-BSD1)

Prepared: 12/03/2023 Analyzed: 12/04/2023

1,4-Dichlorobenzene	0.0177	0.00500	mg/L	0.0250		70.9	42.7-102		6.07	21.2	
2,4,5-Trichlorophenol	0.0256	0.00500	"	0.0250		103	33-141		8.76	22.9	
2,4,6-Trichlorophenol	0.0263	0.00500	"	0.0250		105	35-138		9.22	23.4	
2,4-Dinitrotoluene	0.0308	0.00500	"	0.0250		123	38.6-153		6.03	24.8	
2-Methylphenol	0.0186	0.00500	"	0.0250		74.2	34.7-106		15.5	25.9	
3- & 4-Methylphenols	0.0160	0.0100	"	0.0250		64.0	30.1-94		12.0	24.9	
Cresols, total	0.0346	0.0150	"	0.0500		69.1	30.1-106		13.9	25.9	
Hexachlorobenzene	0.0214	0.00500	"	0.0250		85.7	38.9-109		17.0	27.1	
Hexachlorobutadiene	0.0197	0.00500	"	0.0250		78.8	24.3-132		1.79	22	
Hexachloroethane	0.0167	0.00500	"	0.0250		66.9	36.7-102		3.58	20.4	
Nitrobenzene	0.0182	0.00500	"	0.0250		72.7	33.3-122		30.1	24.1	Non-dir.
Pentachlorophenol	0.0238	0.00500	"	0.0250		95.1	22.2-137		44.1	36.9	Non-dir.
Pyridine	ND	0.00500	"	0.0350			14.9-73.5	Low Bias		50	
Surrogate: SURR: 2-Fluorophenol	0.0243		"	0.0500		48.6	10-90.9				
Surrogate: SURR: Phenol-d6	0.0179		"	0.0500		35.7	10-69.2				
Surrogate: SURR: Nitrobenzene-d5	0.0166		"	0.0250		66.4	19.2-141				
Surrogate: SURR: 2-Fluorobiphenyl	0.0182		"	0.0250		73.0	24.8-127				
Surrogate: SURR: 2,4,6-Tribromophenol	0.0542		"	0.0500		108	23-163				
Surrogate: SURR: Terphenyl-d14	0.0217		"	0.0250		86.9	25.8-110				

Leach Fluid Blank (BL30084-LBK1)

Prepared: 12/03/2023 Analyzed: 12/04/2023

1,4-Dichlorobenzene	ND	0.00500	mg/L								
2,4,5-Trichlorophenol	ND	0.00500	"								
2,4,6-Trichlorophenol	ND	0.00500	"								
2,4-Dinitrotoluene	ND	0.00500	"								
2-Methylphenol	ND	0.00500	"								
3- & 4-Methylphenols	ND	0.0100	"								
Cresols, total	ND	0.0150	"								
Hexachlorobenzene	ND	0.00500	"								
Hexachlorobutadiene	ND	0.00500	"								
Hexachloroethane	ND	0.00500	"								
Nitrobenzene	ND	0.00500	"								
Pentachlorophenol	ND	0.00500	"								
Pyridine	ND	0.00500	"								
Surrogate: SURR: 2-Fluorophenol	0.0230		"	0.0500		46.0	10-90.9				
Surrogate: SURR: Phenol-d6	0.0164		"	0.0500		32.7	10-69.2				
Surrogate: SURR: Nitrobenzene-d5	0.0150		"	0.0250		59.8	19.2-141				
Surrogate: SURR: 2-Fluorobiphenyl	0.0172		"	0.0250		68.7	24.8-127				
Surrogate: SURR: 2,4,6-Tribromophenol	0.0547		"	0.0500		109	23-163				
Surrogate: SURR: Terphenyl-d14	0.0238		"	0.0250		95.4	25.8-110				



Semivolatile 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
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**Batch BL30084 - EPA 3510C/1311**

<b>Matrix Spike (BL30084-MS1)</b>	<b>*Source sample: 23K1898-29 (Matrix Spike)</b>						<b>Prepared: 12/03/2023 Analyzed: 12/04/2023</b>					
1,4-Dichlorobenzene	0.0176	0.00500	mg/L	0.0250	ND	70.2	26-95					
2,4,5-Trichlorophenol	0.0265	0.00500	"	0.0250	ND	106	44-96	High Bias				
2,4,6-Trichlorophenol	0.0273	0.00500	"	0.0250	ND	109	39-107	High Bias				
2,4-Dinitrotoluene	0.0316	0.00500	"	0.0250	ND	127	26-120	High Bias				
2-Methylphenol	0.0194	0.00500	"	0.0250	ND	77.8	10-118					
3- & 4-Methylphenols	0.0164	0.0100	"	0.0250	ND	65.6	10-102					
Cresols, total	0.0358	0.0150	"	0.0500	ND	71.7	30-130					
Hexachlorobenzene	0.0227	0.00500	"	0.0250	ND	90.8	24-120					
Hexachlorobutadiene	0.0196	0.00500	"	0.0250	ND	78.5	26-98					
Hexachloroethane	0.0169	0.00500	"	0.0250	ND	67.8	11-102					
Nitrobenzene	0.0196	0.00500	"	0.0250	ND	78.2	25-107					
Pentachlorophenol	0.0283	0.00500	"	0.0250	ND	113	10-181					
Pyridine	0.0101	0.00500	"	0.0350	ND	29.0	10-73					
<i>Surrogate: SURR: 2-Fluorophenol</i>	<i>0.0284</i>		<i>"</i>	<i>0.0500</i>		<i>56.9</i>	<i>10-90.9</i>					
<i>Surrogate: SURR: Phenol-d6</i>	<i>0.0222</i>		<i>"</i>	<i>0.0500</i>		<i>44.4</i>	<i>10-69.2</i>					
<i>Surrogate: SURR: Nitrobenzene-d5</i>	<i>0.0192</i>		<i>"</i>	<i>0.0250</i>		<i>76.9</i>	<i>19.2-141</i>					
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	<i>0.0206</i>		<i>"</i>	<i>0.0250</i>		<i>82.3</i>	<i>24.8-127</i>					
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	<i>0.0642</i>		<i>"</i>	<i>0.0500</i>		<i>128</i>	<i>23-163</i>					
<i>Surrogate: SURR: Terphenyl-d14</i>	<i>0.0250</i>		<i>"</i>	<i>0.0250</i>		<i>100</i>	<i>25.8-110</i>					

**Batch BL30088 - EPA 3550C**

<b>Matrix Spike (BL30088-MS1)</b>	<b>*Source sample: 23K1784-03 (Matrix Spike)</b>						<b>Prepared: 12/03/2023 Analyzed: 12/05/2023</b>					
1,1-Biphenyl	0.398	0.0856	mg/kg dry	0.855	ND	46.6	10-130					
1,2,4,5-Tetrachlorobenzene	0.432	0.171	"	0.855	ND	50.6	10-133					
1,2,4-Trichlorobenzene	0.458	0.0856	"	0.855	ND	53.5	10-127					
1,2-Dichlorobenzene	0.445	0.0856	"	0.855	ND	52.0	14-111					
1,2-Diphenylhydrazine (as Azobenzene)	0.410	0.0856	"	0.855	ND	47.9	10-144					
1,3-Dichlorobenzene	0.431	0.0856	"	0.855	ND	50.4	11-111					
1,4-Dichlorobenzene	0.435	0.0856	"	0.855	ND	50.8	10-106					
2,3,4,6-Tetrachlorophenol	0.522	0.171	"	0.855	ND	61.0	30-130					
2,4,5-Trichlorophenol	0.482	0.0856	"	0.855	ND	56.3	10-127					
2,4,6-Trichlorophenol	0.460	0.0856	"	0.855	ND	53.8	10-132					
2,4-Dichlorophenol	0.497	0.0856	"	0.855	ND	58.1	10-128					
2,4-Dimethylphenol	0.355	0.0856	"	0.855	ND	41.5	10-137					
2,4-Dinitrophenol	ND	0.171	"	0.855	ND		10-171	Low Bias				
2,4-Dinitrotoluene	0.328	0.0856	"	0.855	ND	38.4	16-135					
2,6-Dinitrotoluene	0.356	0.0856	"	0.855	ND	41.6	18-131					
2-Chloronaphthalene	0.420	0.0856	"	0.855	ND	49.1	10-129					
2-Chlorophenol	0.463	0.0856	"	0.855	ND	54.1	15-116					
2-Methylnaphthalene	0.473	0.0856	"	0.855	ND	55.3	10-147					
2-Methylphenol	0.425	0.0856	"	0.855	ND	49.7	10-136					
2-Nitroaniline	0.532	0.171	"	0.855	ND	62.2	10-137					
2-Nitrophenol	0.271	0.0856	"	0.855	ND	31.7	10-129					
3- & 4-Methylphenols	0.425	0.0856	"	0.855	ND	49.7	10-123					
3,3-Dichlorobenzidine	0.448	0.0856	"	0.855	ND	52.3	10-155					
3-Nitroaniline	0.556	0.171	"	0.855	ND	65.0	12-133					
4,6-Dinitro-2-methylphenol	ND	0.171	"	0.855	ND		10-155	Low Bias				
4-Bromophenyl phenyl ether	0.386	0.0856	"	0.855	ND	45.1	14-128					
4-Chloro-3-methylphenol	0.574	0.0856	"	0.855	ND	67.1	10-134					
4-Chloroaniline	0.421	0.0856	"	0.855	ND	49.2	10-145					





Semivolatile 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
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Batch BL30088 - EPA 3550C

Matrix Spike (BL30088-MS1)	*Source sample: 23K1784-03 (Matrix Spike)						Prepared: 12/03/2023 Analyzed: 12/05/2023					
4-Chlorophenyl phenyl ether	0.430	0.0856	mg/kg dry	0.855	ND	50.2	14-130					
4-Nitroaniline	0.592	0.171	"	0.855	ND	69.2	10-147					
4-Nitrophenol	0.470	0.171	"	0.855	ND	55.0	10-137					
Acenaphthene	0.398	0.0856	"	0.855	ND	46.5	10-146					
Acenaphthylene	0.427	0.0856	"	0.855	ND	49.9	10-134					
Acetophenone	0.506	0.0856	"	0.855	ND	59.1	10-116					
Aniline	0.369	0.343	"	0.855	ND	43.1	10-123					
Anthracene	0.430	0.0856	"	0.855	ND	50.2	10-142					
Atrazine	0.446	0.0856	"	0.855	ND	52.2	19-115					
Benzaldehyde	0.430	0.0856	"	0.855	ND	50.2	10-125					
Benzo(a)anthracene	0.476	0.0856	"	0.855	ND	55.6	10-158					
Benzo(a)pyrene	0.404	0.0856	"	0.855	ND	47.2	10-180					
Benzo(b)fluoranthene	0.415	0.0856	"	0.855	ND	48.6	10-200					
Benzo(g,h,i)perylene	0.386	0.0856	"	0.855	ND	45.1	10-138					
Benzo(k)fluoranthene	0.418	0.0856	"	0.855	ND	48.9	10-197					
Benzoic acid	0.523	0.0856	"	0.855	ND	61.2	10-166					
Benzyl alcohol	0.475	0.0856	"	0.855	ND	55.5	12-124					
Benzyl butyl phthalate	0.470	0.0856	"	0.855	ND	55.0	10-154					
Bis(2-chloroethoxy)methane	0.495	0.0856	"	0.855	ND	57.9	10-132					
Bis(2-chloroethyl)ether	0.474	0.0856	"	0.855	ND	55.4	10-119					
Bis(2-chloroisopropyl)ether	0.541	0.0856	"	0.855	ND	63.3	10-139					
Bis(2-ethylhexyl)phthalate	0.489	0.0856	"	0.855	ND	57.1	10-167					
Caprolactam	0.632	0.171	"	0.855	ND	73.9	10-132					
Carbazole	0.442	0.0856	"	0.855	ND	51.7	10-167					
Chrysene	0.449	0.0856	"	0.855	ND	52.5	10-156					
Dibenzo(a,h)anthracene	0.440	0.0856	"	0.855	ND	51.4	10-137					
Dibenzofuran	0.430	0.0856	"	0.855	ND	50.2	10-147					
Diethyl phthalate	0.408	0.0856	"	0.855	ND	47.7	20-120					
Dimethyl phthalate	0.402	0.0856	"	0.855	ND	47.0	18-131					
Di-n-butyl phthalate	0.446	0.0856	"	0.855	ND	52.2	10-137					
Di-n-octyl phthalate	0.534	0.0856	"	0.855	ND	62.5	10-180					
Fluoranthene	0.465	0.0856	"	0.855	ND	54.4	10-160					
Fluorene	0.428	0.0856	"	0.855	ND	50.1	10-157					
Hexachlorobenzene	0.410	0.0856	"	0.855	ND	47.9	10-137					
Hexachlorobutadiene	0.462	0.0856	"	0.855	ND	54.0	10-132					
Hexachlorocyclopentadiene	ND	0.0856	"	0.855	ND		10-106			Low Bias		
Hexachloroethane	0.289	0.0856	"	0.855	ND	33.8	10-110					
Indeno(1,2,3-cd)pyrene	0.455	0.0856	"	0.855	ND	53.2	10-144					
Isophorone	0.502	0.0856	"	0.855	ND	58.6	10-132					
Naphthalene	0.464	0.0856	"	0.855	ND	54.2	10-141					
Nitrobenzene	0.502	0.0856	"	0.855	ND	58.6	10-131					
N-Nitrosodimethylamine	0.493	0.0856	"	0.855	ND	57.7	10-126					
N-nitroso-di-n-propylamine	0.461	0.0856	"	0.855	ND	53.9	10-125					
N-Nitrosodiphenylamine	0.406	0.0856	"	0.855	ND	47.5	10-177					
Pentachlorophenol	0.372	0.0856	"	0.855	ND	43.4	10-153					
Phenanthrene	0.432	0.0856	"	0.855	ND	50.6	10-148					
Phenol	0.535	0.0856	"	0.855	ND	62.6	10-126					
Pyrene	0.481	0.0856	"	0.855	ND	56.2	10-165					
Pyridine	0.388	0.343	"	0.855	ND	45.4	10-83					
Surrogate: SURR: 2-Fluorophenol	1.10		"	1.71		64.4	20-108					
Surrogate: SURR: Phenol-d6	1.10		"	1.71		64.4	23-114					



Semivolatile 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
<b>Batch BL30088 - EPA 3550C</b>											
<b>Matrix Spike (BL30088-MS1)</b>		*Source sample: 23K1784-03 (Matrix Spike)					Prepared: 12/03/2023 Analyzed: 12/05/2023				
Surrogate: SURR: Nitrobenzene-d5	0.499		mg/kg dry	0.855		58.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.439		"	0.855		51.4	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	0.903		"	1.71		52.8	19-110				
Surrogate: SURR: Terphenyl-d14	0.499		"	0.855		58.3	24-116				
<b>Matrix Spike Dup (BL30088-MSD1)</b>		*Source sample: 23K1784-03 (Matrix Spike Dup)					Prepared: 12/03/2023 Analyzed: 12/05/2023				
1,1-Biphenyl	0.539	0.0856	mg/kg dry	0.855	ND	63.0	10-130		29.9	30	
1,2,4,5-Tetrachlorobenzene	0.587	0.171	"	0.855	ND	68.6	10-133		30.3	30	Non-dir.
1,2,4-Trichlorobenzene	0.593	0.0856	"	0.855	ND	69.3	10-127		25.7	30	
1,2-Dichlorobenzene	0.582	0.0856	"	0.855	ND	68.0	14-111		26.7	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.567	0.0856	"	0.855	ND	66.3	10-144		32.2	30	Non-dir.
1,3-Dichlorobenzene	0.570	0.0856	"	0.855	ND	66.6	11-111		27.8	30	
1,4-Dichlorobenzene	0.565	0.0856	"	0.855	ND	66.0	10-106		26.0	30	
2,3,4,6-Tetrachlorophenol	0.737	0.171	"	0.855	ND	86.2	30-130		34.1	30	Non-dir.
2,4,5-Trichlorophenol	0.643	0.0856	"	0.855	ND	75.2	10-127		28.7	30	
2,4,6-Trichlorophenol	0.616	0.0856	"	0.855	ND	72.0	10-132		29.0	30	
2,4-Dichlorophenol	0.664	0.0856	"	0.855	ND	77.7	10-128		28.9	30	
2,4-Dimethylphenol	0.459	0.0856	"	0.855	ND	53.7	10-137		25.5	30	
2,4-Dinitrophenol	ND	0.171	"	0.855	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.458	0.0856	"	0.855	ND	53.6	16-135		33.0	30	Non-dir.
2,6-Dinitrotoluene	0.503	0.0856	"	0.855	ND	58.8	18-131		34.3	30	Non-dir.
2-Chloronaphthalene	0.563	0.0856	"	0.855	ND	65.8	10-129		29.1	30	
2-Chlorophenol	0.606	0.0856	"	0.855	ND	70.8	15-116		26.8	30	
2-Methylnaphthalene	0.614	0.0856	"	0.855	ND	71.8	10-147		26.1	30	
2-Methylphenol	0.560	0.0856	"	0.855	ND	65.4	10-136		27.4	30	
2-Nitroaniline	0.692	0.171	"	0.855	ND	80.9	10-137		26.0	30	
2-Nitrophenol	0.376	0.0856	"	0.855	ND	43.9	10-129		32.4	30	Non-dir.
3- & 4-Methylphenols	0.560	0.0856	"	0.855	ND	65.4	10-123		27.4	30	
3,3-Dichlorobenzidine	0.634	0.0856	"	0.855	ND	74.2	10-155		34.5	30	Non-dir.
3-Nitroaniline	0.757	0.171	"	0.855	ND	88.5	12-133		30.7	30	Non-dir.
4,6-Dinitro-2-methylphenol	ND	0.171	"	0.855	ND		10-155	Low Bias		30	
4-Bromophenyl phenyl ether	0.516	0.0856	"	0.855	ND	60.3	14-128		28.8	30	
4-Chloro-3-methylphenol	0.703	0.0856	"	0.855	ND	82.2	10-134		20.2	30	
4-Chloroaniline	0.540	0.0856	"	0.855	ND	63.1	10-145		24.8	30	
4-Chlorophenyl phenyl ether	0.562	0.0856	"	0.855	ND	65.8	14-130		26.8	30	
4-Nitroaniline	0.758	0.171	"	0.855	ND	88.6	10-147		24.6	30	
4-Nitrophenol	0.627	0.171	"	0.855	ND	73.3	10-137		28.6	30	
Acenaphthene	0.530	0.0856	"	0.855	ND	62.0	10-146		28.6	30	
Acenaphthylene	0.573	0.0856	"	0.855	ND	67.0	10-134		29.2	30	
Acetophenone	0.662	0.0856	"	0.855	ND	77.4	10-116		26.7	30	
Aniline	0.470	0.343	"	0.855	ND	55.0	10-123		24.1	30	
Anthracene	0.582	0.0856	"	0.855	ND	68.0	10-142		30.0	30	
Atrazine	0.590	0.0856	"	0.855	ND	69.0	19-115		27.7	30	
Benzaldehyde	0.565	0.0856	"	0.855	ND	66.1	10-125		27.2	30	
Benzo(a)anthracene	0.638	0.0856	"	0.855	ND	74.6	10-158		29.1	30	
Benzo(a)pyrene	0.587	0.0856	"	0.855	ND	68.6	10-180		37.0	30	Non-dir.
Benzo(b)fluoranthene	0.593	0.0856	"	0.855	ND	69.3	10-200		35.2	30	Non-dir.
Benzo(g,h,i)perylene	0.510	0.0856	"	0.855	ND	59.6	10-138		27.7	30	
Benzo(k)fluoranthene	0.588	0.0856	"	0.855	ND	68.8	10-197		33.9	30	Non-dir.
Benzoic acid	0.277	0.0856	"	0.855	ND	32.4	10-166		61.5	30	Non-dir.
Benzyl alcohol	0.618	0.0856	"	0.855	ND	72.2	12-124		26.2	30	



Semivolatile 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
<b>Batch BL30088 - EPA 3550C</b>											
<b>Matrix Spike Dup (BL30088-MSD1)</b>	*Source sample: 23K1784-03 (Matrix Spike Dup)						Prepared: 12/03/2023 Analyzed: 12/05/2023				
Benzyl butyl phthalate	0.633	0.0856	mg/kg dry	0.855	ND	74.0	10-154		29.5	30	
Bis(2-chloroethoxy)methane	0.625	0.0856	"	0.855	ND	73.1	10-132		23.2	30	
Bis(2-chloroethyl)ether	0.641	0.0856	"	0.855	ND	75.0	10-119		29.9	30	
Bis(2-chloroisopropyl)ether	0.711	0.0856	"	0.855	ND	83.1	10-139		27.1	30	
Bis(2-ethylhexyl)phthalate	0.664	0.0856	"	0.855	ND	77.6	10-167		30.4	30	Non-dir.
Caprolactam	0.807	0.171	"	0.855	ND	94.3	10-132		24.3	30	
Carbazole	0.612	0.0856	"	0.855	ND	71.5	10-167		32.2	30	Non-dir.
Chrysene	0.609	0.0856	"	0.855	ND	71.2	10-156		30.3	30	Non-dir.
Dibenzo(a,h)anthracene	0.588	0.0856	"	0.855	ND	68.8	10-137		28.9	30	
Dibenzofuran	0.581	0.0856	"	0.855	ND	67.9	10-147		29.9	30	
Diethyl phthalate	0.543	0.0856	"	0.855	ND	63.4	20-120		28.4	30	
Dimethyl phthalate	0.546	0.0856	"	0.855	ND	63.8	18-131		30.5	30	Non-dir.
Di-n-butyl phthalate	0.608	0.0856	"	0.855	ND	71.0	10-137		30.6	30	Non-dir.
Di-n-octyl phthalate	0.723	0.0856	"	0.855	ND	84.5	10-180		29.9	30	
Fluoranthene	0.631	0.0856	"	0.855	ND	73.8	10-160		30.2	30	Non-dir.
Fluorene	0.580	0.0856	"	0.855	ND	67.8	10-157		30.0	30	
Hexachlorobenzene	0.543	0.0856	"	0.855	ND	63.5	10-137		28.0	30	
Hexachlorobutadiene	0.588	0.0856	"	0.855	ND	68.7	10-132		24.0	30	
Hexachlorocyclopentadiene	ND	0.0856	"	0.855	ND		10-106	Low Bias		30	
Hexachloroethane	0.377	0.0856	"	0.855	ND	44.1	10-110		26.3	30	
Indeno(1,2,3-cd)pyrene	0.584	0.0856	"	0.855	ND	68.3	10-144		24.9	30	
Isophorone	0.652	0.0856	"	0.855	ND	76.2	10-132		26.1	30	
Naphthalene	0.613	0.0856	"	0.855	ND	71.7	10-141		27.7	30	
Nitrobenzene	0.652	0.0856	"	0.855	ND	76.2	10-131		26.1	30	
N-Nitrosodimethylamine	0.667	0.0856	"	0.855	ND	78.0	10-126		30.0	30	
N-nitroso-di-n-propylamine	0.603	0.0856	"	0.855	ND	70.5	10-125		26.6	30	
N-Nitrosodiphenylamine	0.557	0.0856	"	0.855	ND	65.1	10-177		31.2	30	Non-dir.
Pentachlorophenol	0.484	0.0856	"	0.855	ND	56.6	10-153		26.4	30	
Phenanthrene	0.586	0.0856	"	0.855	ND	68.6	10-148		30.2	30	Non-dir.
Phenol	0.693	0.0856	"	0.855	ND	81.0	10-126		25.7	30	
Pyrene	0.642	0.0856	"	0.855	ND	75.0	10-165		28.6	30	
Pyridine	0.553	0.343	"	0.855	ND	64.6	10-83		35.1	30	Non-dir.
<i>Surrogate: SURR: 2-Fluorophenol</i>	<i>1.39</i>		<i>"</i>	<i>1.71</i>		<i>81.3</i>	<i>20-108</i>				
<i>Surrogate: SURR: Phenol-d6</i>	<i>1.38</i>		<i>"</i>	<i>1.71</i>		<i>80.8</i>	<i>23-114</i>				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	<i>0.635</i>		<i>"</i>	<i>0.855</i>		<i>74.2</i>	<i>22-108</i>				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	<i>0.573</i>		<i>"</i>	<i>0.855</i>		<i>67.0</i>	<i>21-113</i>				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	<i>1.21</i>		<i>"</i>	<i>1.71</i>		<i>70.9</i>	<i>19-110</i>				
<i>Surrogate: SURR: Terphenyl-d14</i>	<i>0.631</i>		<i>"</i>	<i>0.855</i>		<i>73.8</i>	<i>24-116</i>				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Blank (BL30041-BLK1)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
Perfluorobutanesulfonic acid (PFBS)	ND	0.174	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.197	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.197	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.180	"								
Perfluorooctanoic acid (PFOA)	ND	0.197	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.183	"								
Perfluorononanoic acid (PFNA)	ND	0.197	"								
Perfluorodecanoic acid (PFDA)	ND	0.197	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.197	"								
Perfluorododecanoic acid (PFDoA)	ND	0.197	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.197	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.197	"								
N-MeFOSAA	ND	0.197	"								
N-EtFOSAA	ND	0.197	"								
Perfluoropentanoic acid (PFPeA)	ND	0.394	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.197	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.197	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.190	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.748	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.756	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.787	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	0.350	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.394	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.394	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.394	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.185	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.738	"								
HFPO-DA (Gen-X)	ND	0.787	"								
11CL-PF3OUdS	ND	0.744	"								
9CL-PF3ONS	ND	0.736	"								
ADONA	ND	0.744	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.191	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.189	"								
3-Perfluoropropyl propanoic acid (FPPrPA)	ND	0.984	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.92	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.92	"								
N-MeFOSE	ND	1.97	"								
N-MeFOSA	ND	0.197	"								
N-EtFOSE	ND	1.97	"								
N-EtFOSA	ND	0.197	"								
<i>Surrogate: M3PFBS</i>	1.49		"	1.91		78.0	25-150				
<i>Surrogate: M5PFHxA</i>	2.25		"	2.05		110	25-150				
<i>Surrogate: M4PFHpA</i>	2.72		"	2.05		133	25-150				
<i>Surrogate: M3PFHxS</i>	2.50		"	1.94		129	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	2.15		"	2.05		105	25-150				
<i>Surrogate: M6PFDA</i>	1.03		"	1.02		101	25-150				
<i>Surrogate: M7PFUDA</i>	0.913		"	1.02		89.2	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL30041 - EPA 1633 Prep

Blank (BL30041-BLK1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.879		ug/kg wet	1.02		85.9	25-150				
Surrogate: M2PFTeDA	0.640		"	1.02		62.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.395		"	8.22		4.80	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.41		"	1.96		71.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.828		"	4.10		20.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.38		"	2.05		67.4	10-150				
Surrogate: d3-N-MeFOSAA	1.94		"	4.10		47.2	25-150				
Surrogate: d5-N-EtFOSAA	1.98		"	4.10		48.2	25-150				
Surrogate: M2-6:2 FTS	3.67		"	3.90		94.2	25-200				
Surrogate: M2-8:2 FTS	2.59		"	3.94		65.8	25-200				
Surrogate: M9PFNA	0.999		"	1.02		97.6	25-150				
Surrogate: M2-4:2 FTS	3.74		"	3.85		97.1	25-150				
Surrogate: d-N-MeFOSA	0.935		"	2.05		45.6	25-150				
Surrogate: d-N-EtFOSA	1.04		"	2.05		50.9	25-150				
Surrogate: M3HFPO-DA	10.1		"	8.22		123	25-150				
Surrogate: d9-N-EtFOSE	5.61		"	20.5		27.4	25-150				
Surrogate: d7-N-MeFOSE	8.68		"	20.5		42.3	25-150				

LCS (BL30041-BS1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	3.61	0.176	ug/kg wet	3.52		102	50-150				
Perfluorohexanoic acid (PFHxA)	3.43	0.199	"	3.98		86.4	50-150				
Perfluoroheptanoic acid (PFHpA)	3.38	0.199	"	3.98		85.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.60	0.182	"	3.64		99.0	50-150				
Perfluorooctanoic acid (PFOA)	3.57	0.199	"	3.98		89.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.79	0.185	"	3.70		103	50-150				
Perfluorononanoic acid (PFNA)	3.81	0.199	"	3.98		95.9	50-150				
Perfluorodecanoic acid (PFDA)	3.36	0.199	"	3.98		84.6	50-150				
Perfluoroundecanoic acid (PFUnA)	4.39	0.199	"	3.98		110	50-150				
Perfluorododecanoic acid (PFDoA)	3.76	0.199	"	3.98		94.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.44	0.199	"	3.98		112	50-150				
Perfluorotetradecanoic acid (PFTA)	4.30	0.199	"	3.98		108	50-150				
N-MeFOSAA	4.32	0.199	"	3.98		109	50-150				
N-EtFOSAA	4.14	0.199	"	3.98		104	50-150				
Perfluoropentanoic acid (PFPeA)	7.47	0.398	"	7.95		93.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.43	0.199	"	3.98		111	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.69	0.199	"	3.80		123	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.18	0.192	"	3.84		83.0	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.6	0.755	"	15.1		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.1	0.763	"	15.3		105	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.1	0.795	"	15.9		82.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.82	0.354	"	7.08		82.3	50-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	5.07	0.398	"	7.95		63.7	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.30	0.398	"	7.95		28.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	11.1	0.398	"	7.95		140	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.76	0.187	"	3.74		101	50-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>LCS (BL30041-BS1)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	13.7	0.746	ug/kg wet	14.9		91.9	50-150				
HFPO-DA (Gen-X)	6.36	0.795	"	7.95		80.0	50-150				
11CL-PF3OUdS	4.43	0.751	"	7.51		59.0	50-150				
9CL-PF3ONS	5.97	0.744	"	7.44		80.3	50-150				
ADONA	7.71	0.751	"	7.51		103	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.47	0.193	"	3.86		64.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.87	0.191	"	3.82		101	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	12.4	0.994	"	15.9		78.3	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	87.7	4.97	"	79.5		110	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	70.5	4.97	"	79.5		88.6	50-150				
N-MeFOSE	29.4	1.99	"	39.8		73.9	50-150				
N-MeFOSA	3.10	0.199	"	3.98		77.9	50-150				
N-EtFOSE	33.5	1.99	"	39.8		84.3	50-150				
N-EtFOSA	3.66	0.199	"	3.98		92.1	50-150				
Surrogate: M3PFBS	1.48		"	1.93		76.9	25-150				
Surrogate: M5PFHxA	2.24		"	2.07		108	25-150				
Surrogate: M4PFHpA	2.75		"	2.07		133	25-150				
Surrogate: M3PFHxS	2.50		"	1.96		127	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.29		"	2.07		111	25-150				
Surrogate: M6PFDA	1.01		"	1.03		98.1	25-150				
Surrogate: M7PFUdA	0.874		"	1.03		84.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.792		"	1.03		76.6	25-150				
Surrogate: M2PFTeDA	0.648		"	1.03		62.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.373		"	8.30		4.50	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.52		"	1.98		76.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.834		"	4.14		20.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.31		"	2.07		63.1	10-150				
Surrogate: d3-N-MeFOSAA	1.94		"	4.14		46.9	25-150				
Surrogate: d5-N-EtFOSAA	1.98		"	4.14		47.8	25-150				
Surrogate: M2-6:2 FTS	4.06		"	3.94		103	25-200				
Surrogate: M2-8:2 FTS	2.95		"	3.98		74.2	25-200				
Surrogate: M9PFNA	1.00		"	1.03		97.2	25-150				
Surrogate: M2-4:2 FTS	3.80		"	3.89		97.7	25-150				
Surrogate: d-N-MeFOSA	0.992		"	2.07		47.9	25-150				
Surrogate: d-N-EtFOSA	1.00		"	2.07		48.5	25-150				
Surrogate: M3HFPO-DA	9.56		"	8.30		115	25-150				
Surrogate: d9-N-EtFOSE	6.86		"	20.7		33.1	25-150				
Surrogate: d7-N-MeFOSE	9.03		"	20.7		43.6	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
<b>Batch BL30041 - EPA 1633 Prep</b>										
<b>LCS (BL30041-BS2)</b>										
Prepared: 12/01/2023 Analyzed: 12/03/2023										
Perfluorobutanesulfonic acid (PFBS)	0.907	0.175	ug/kg wet	0.698	130	50-150				
Perfluorohexanoic acid (PFHxA)	0.810	0.197	"	0.789	103	50-150				
Perfluoroheptanoic acid (PFHpA)	0.826	0.197	"	0.789	105	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.892	0.180	"	0.722	124	50-150				
Perfluorooctanoic acid (PFOA)	0.932	0.197	"	0.789	118	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.895	0.183	"	0.734	122	50-150				
Perfluorononanoic acid (PFNA)	0.867	0.197	"	0.789	110	50-150				
Perfluorodecanoic acid (PFDA)	0.806	0.197	"	0.789	102	50-150				
Perfluoroundecanoic acid (PFUnA)	0.965	0.197	"	0.789	122	50-150				
Perfluorododecanoic acid (PFDoA)	0.909	0.197	"	0.789	115	50-150				
Perfluorotridecanoic acid (PFTriDA)	0.967	0.197	"	0.789	123	50-150				
Perfluorotetradecanoic acid (PFTA)	0.826	0.197	"	0.789	105	50-150				
N-MeFOSAA	1.01	0.197	"	0.789	128	50-150				
N-EtFOSAA	0.897	0.197	"	0.789	114	50-150				
Perfluoropentanoic acid (PFPeA)	1.71	0.394	"	1.58	109	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	1.03	0.197	"	0.789	130	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	1.10	0.197	"	0.753	146	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.686	0.190	"	0.761	90.1	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.55	0.750	"	3.00	119	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.24	0.757	"	3.03	140	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.89	0.789	"	3.16	91.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.37	0.351	"	1.40	97.3	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.861	0.394	"	1.58	54.6	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.590	0.394	"	1.58	37.4	50-150				Low Bias
Perfluoro-5-oxahexanoic acid (PFMBA)	2.47	0.394	"	1.58	156	50-150				High Bias
Perfluoro-1-pentanesulfonate (PFPeS)	0.888	0.185	"	0.742	120	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	3.28	0.740	"	2.96	111	50-150				
HFPO-DA (Gen-X)	1.46	0.789	"	1.58	92.8	50-150				
11CL-PF3OUdS	1.35	0.746	"	1.49	90.3	50-150				
9CL-PF3ONS	1.78	0.738	"	1.48	120	50-150				
ADONA	2.30	0.746	"	1.49	154	50-150				High Bias
Perfluorododecanesulfonic acid (PFDoS)	0.630	0.191	"	0.765	82.4	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.845	0.189	"	0.757	112	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.986	"	3.16		50-150				Low Bias
3-Perfluoropentyl propanoic acid (FPePA)	24.6	4.93	"	15.8	156	50-150				High Bias
3-Perfluoroheptyl propanoic acid (FHpPA)	19.6	4.93	"	15.8	124	50-150				
N-MeFOSE	7.25	1.97	"	7.89	91.9	50-150				
N-MeFOSA	0.807	0.197	"	0.789	102	50-150				
N-EtFOSE	7.57	1.97	"	7.89	96.0	50-150				
N-EtFOSA	0.901	0.197	"	0.789	114	50-150				
Surrogate: M3PFBS	1.00		"	1.91	52.4	25-150				
Surrogate: M5PFHxA	1.67		"	2.06	81.4	25-150				
Surrogate: M4PFHpA	2.49		"	2.06	121	25-150				
Surrogate: M3PFHxS	2.37		"	1.95	122	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.04		"	2.06	99.1	25-150				
Surrogate: M6PFDA	0.911		"	1.03	88.8	25-150				
Surrogate: M7PFUDA	0.829		"	1.03	80.8	25-150				





**PFAS Target compounds by LC/MS-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
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**Batch BL30041 - EPA 1633 Prep**

**LCS (BL30041-BS2)**

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.768		ug/kg wet	1.03		74.9	25-150				
Surrogate: M2PFTeDA	0.664		"	1.03		64.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.281		"	8.23		3.41	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.45		"	1.97		73.7	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.523		"	4.11		12.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.26		"	2.06		61.2	10-150				
Surrogate: d3-N-MeFOSAA	2.08		"	4.11		50.5	25-150				
Surrogate: d5-N-EtFOSAA	2.01		"	4.11		49.0	25-150				
Surrogate: M2-6:2 FTS	3.67		"	3.91		93.9	25-200				
Surrogate: M2-8:2 FTS	2.70		"	3.94		68.5	25-200				
Surrogate: M9PFNA	0.974		"	1.03		94.9	25-150				
Surrogate: M2-4:2 FTS	3.22		"	3.86		83.4	25-150				
Surrogate: d-N-MeFOSA	0.994		"	2.06		48.3	25-150				
Surrogate: d-N-EtFOSA	0.896		"	2.06		43.6	25-150				
Surrogate: M3HFPO-DA	7.20		"	8.23		87.5	25-150				
Surrogate: d9-N-EtFOSE	8.22		"	20.6		40.0	25-150				
Surrogate: d7-N-MeFOSE	9.72		"	20.6		47.2	25-150				

**Matrix Spike (BL30041-MS1)**

\*Source sample: 23K1814-01 (Matrix Spike)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	4.49	0.193	ug/kg dry	3.87	ND	116	25-150				
Perfluorohexanoic acid (PFHxA)	4.37	0.219	"	4.37	ND	100	25-150				
Perfluoroheptanoic acid (PFHpA)	4.06	0.219	"	4.37	ND	92.8	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.17	0.200	"	4.00	ND	104	25-150				
Perfluorooctanoic acid (PFOA)	5.01	0.219	"	4.37	ND	115	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.60	0.203	"	4.07	ND	113	25-150				
Perfluorononanoic acid (PFNA)	4.47	0.219	"	4.37	ND	102	25-150				
Perfluorodecanoic acid (PFDA)	4.75	0.219	"	4.37	ND	109	25-150				
Perfluoroundecanoic acid (PFUnA)	5.22	0.219	"	4.37	ND	119	25-150				
Perfluorododecanoic acid (PFDoA)	4.83	0.219	"	4.37	ND	110	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.47	0.219	"	4.37	ND	125	25-150				
Perfluorotetradecanoic acid (PFTA)	4.86	0.219	"	4.37	ND	111	25-150				
N-MeFOSAA	5.32	0.219	"	4.37	ND	122	25-150				
N-EtFOSAA	5.13	0.219	"	4.37	ND	117	25-150				
Perfluoropentanoic acid (PFPeA)	9.20	0.437	"	8.74	ND	105	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.70	0.219	"	4.37	ND	130	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.86	0.219	"	4.17	ND	116	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.54	0.211	"	4.22	ND	108	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	18.9	0.831	"	16.6	ND	114	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	21.3	0.839	"	16.8	ND	127	25-150				
Perfluoro-n-butanoic acid (PFBA)	14.7	0.874	"	17.5	ND	84.2	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.88	0.389	"	7.78	ND	88.4	25-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	4.44	0.437	"	8.74	ND	50.8	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	3.14	0.437	"	8.74	ND	35.9	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	13.4	0.437	"	8.74	ND	153	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.06	0.205	"	4.11	ND	98.7	25-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Matrix Spike (BL30041-MS1)</b>	*Source sample: 23K1814-01 (Matrix Spike)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.5	0.820	ug/kg dry	16.4	ND	107	25-150				
HFPO-DA (Gen-X)	6.36	0.874	"	8.74	ND	72.7	25-150				
11CL-PF3OUdS	13.5	0.826	"	8.26	ND	163	25-150	High Bias			
9CL-PF3ONS	16.7	0.817	"	8.17	ND	204	25-150	High Bias			
ADONA	14.3	0.826	"	8.26	ND	173	25-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	3.90	0.212	"	4.24	ND	92.0	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	5.40	0.210	"	4.20	ND	129	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	1.09	"	17.5	ND	90.4	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	142	5.46	"	87.4	ND	162	25-150	High Bias			
3-Perfluoroheptyl propanoic acid (FHpPA)	146	5.46	"	87.4	ND	167	25-150	High Bias			
N-MeFOSE	37.5	2.19	"	43.7	ND	85.8	25-150				
N-MeFOSA	3.99	0.219	"	4.37	ND	91.3	25-150				
N-EtFOSE	39.9	2.19	"	43.7	ND	91.4	25-150				
N-EtFOSA	4.00	0.219	"	4.37	ND	91.6	25-150				
Surrogate: M3PFBS	0.965		"	2.12		45.5	25-150				
Surrogate: M5PFHxA	1.75		"	2.28		76.9	25-150				
Surrogate: M4PFHpA	2.98		"	2.28		131	25-150				
Surrogate: M3PFHxS	3.12		"	2.16		144	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.43		"	2.28		107	25-150				
Surrogate: M6PFDA	1.36		"	1.14		120	25-150				
Surrogate: M7PFUdA	1.44		"	1.14		126	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.35		"	1.14		119	25-150				
Surrogate: M2PFTeDA	1.02		"	1.14		90.0	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.290		"	9.13		3.18	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.28		"	2.18		105	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.486		"	4.55		10.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.86		"	2.28		81.8	10-150				
Surrogate: d3-N-MeFOSAA	3.18		"	4.55		69.8	25-150				
Surrogate: d5-N-EtFOSAA	3.29		"	4.55		72.4	25-150				
Surrogate: M2-6:2 FTS	5.17		"	4.33		119	25-200				
Surrogate: M2-8:2 FTS	5.01		"	4.37		115	25-200				
Surrogate: M9PFNA	1.42		"	1.14		125	25-150				
Surrogate: M2-4:2 FTS	3.26		"	4.27		76.4	25-150				
Surrogate: d-N-MeFOSA	1.71		"	2.28		74.9	25-150				
Surrogate: d-N-EtFOSA	1.90		"	2.28		83.3	25-150				
Surrogate: M3HFPO-DA	7.22		"	9.13		79.1	25-150				
Surrogate: d9-N-EtFOSE	11.2		"	22.8		49.1	25-150				
Surrogate: d7-N-MeFOSE	13.8		"	22.8		60.5	25-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Matrix Spike Dup (BL30041-MSD1)</b>	*Source sample: 23K1814-01 (Matrix Spike Dup)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
Perfluorobutanesulfonic acid (PFBS)	3.99	0.193	ug/kg dry	3.86	ND	103	25-150		11.8	35	
Perfluorohexanoic acid (PFHxA)	3.97	0.218	"	4.36	ND	90.9	25-150		9.68	35	
Perfluoroheptanoic acid (PFHpA)	3.73	0.218	"	4.36	ND	85.5	25-150		8.34	35	
Perfluorohexanesulfonic acid (PFHxS)	4.06	0.200	"	3.99	ND	102	25-150		2.61	35	
Perfluorooctanoic acid (PFOA)	4.44	0.218	"	4.36	ND	102	25-150		12.1	35	
Perfluorooctanesulfonic acid (PFOS)	4.42	0.203	"	4.06	ND	109	25-150		4.00	35	
Perfluorononanoic acid (PFNA)	4.41	0.218	"	4.36	ND	101	25-150		1.36	35	
Perfluorodecanoic acid (PFDA)	4.11	0.218	"	4.36	ND	94.2	25-150		14.4	35	
Perfluoroundecanoic acid (PFUnA)	5.22	0.218	"	4.36	ND	120	25-150		0.0203	35	
Perfluorododecanoic acid (PFDoA)	4.44	0.218	"	4.36	ND	102	25-150		8.49	35	
Perfluorotridecanoic acid (PFTriDA)	4.88	0.218	"	4.36	ND	112	25-150		11.6	35	
Perfluorotetradecanoic acid (PFTA)	4.73	0.218	"	4.36	ND	108	25-150		2.65	35	
N-MeFOSAA	4.80	0.218	"	4.36	ND	110	25-150		10.3	35	
N-EtFOSAA	4.57	0.218	"	4.36	ND	105	25-150		11.7	35	
Perfluoropentanoic acid (PFPeA)	8.44	0.436	"	8.73	ND	96.7	25-150		8.63	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.83	0.218	"	4.36	ND	111	25-150		16.6	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.85	0.218	"	4.17	ND	116	25-150		0.155	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.49	0.211	"	4.21	ND	107	25-150		1.22	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	17.9	0.829	"	16.6	ND	108	25-150		5.11	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	18.6	0.838	"	16.8	ND	111	25-150		13.8	35	
Perfluoro-n-butanoic acid (PFBA)	14.9	0.873	"	17.5	ND	85.4	25-150		1.22	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.74	0.388	"	7.77	ND	86.8	25-150		1.97	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.93	0.436	"	8.73	ND	67.9	25-150		28.7	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.88	0.436	"	8.73	ND	32.9	25-150		8.70	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	12.8	0.436	"	8.73	ND	147	25-150		4.56	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.06	0.205	"	4.10	ND	99.0	25-150		0.0774	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	15.5	0.818	"	16.4	ND	94.9	25-150		12.1	30	
HFPO-DA (Gen-X)	7.36	0.873	"	8.73	ND	84.3	25-150		14.6	30	
11CL-PF3OUdS	8.15	0.825	"	8.25	ND	98.9	25-150		49.2	30	Non-dir.
9CL-PF3ONS	10.2	0.816	"	8.16	ND	125	25-150		48.4	30	Non-dir.
ADONA	8.75	0.825	"	8.25	ND	106	25-150		47.9	30	Non-dir.
Perfluorododecanesulfonic acid (PFDoS)	3.31	0.212	"	4.23	ND	78.2	25-150		16.4	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	5.19	0.209	"	4.19	ND	124	25-150		4.01	30	
3-Perfluoropropyl propanoic acid (FPrPA)	12.3	1.09	"	17.5	ND	70.8	25-150		24.5	30	
3-Perfluoropentyl propanoic acid (FPePA)	96.2	5.45	"	87.3	ND	110	25-150		38.4	30	Non-dir.
3-Perfluoroheptyl propanoic acid (FHpPA)	94.9	5.45	"	87.3	ND	109	25-150		42.7	30	Non-dir.
N-MeFOSE	31.1	2.18	"	43.6	ND	71.3	25-150		18.6	30	
N-MeFOSA	3.51	0.218	"	4.36	ND	80.4	25-150		12.8	30	
N-EtFOSE	36.8	2.18	"	43.6	ND	84.2	25-150		8.32	30	
N-EtFOSA	3.90	0.218	"	4.36	ND	89.4	25-150		2.64	30	
Surrogate: M3PFBS	1.62		"	2.12		76.5	25-150				
Surrogate: M5PFHxA	2.39		"	2.27		105	25-150				
Surrogate: M4PFHpA	2.91		"	2.27		128	25-150				
Surrogate: M3PFHxS	2.84		"	2.15		132	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.48		"	2.27		109	25-150				
Surrogate: M6PFDA	1.51		"	1.13		133	25-150				
Surrogate: M7PFUdA	1.50		"	1.13		132	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL30041 - EPA 1633 Prep

Matrix Spike Dup (BL30041-MSD1) \*Source sample: 23K1814-01 (Matrix Spike Dup) Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.40		ug/kg dry	1.13		124	25-150				
Surrogate: M2PFTeDA	1.12		"	1.13		98.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.498		"	9.11		5.47	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.34		"	2.18		108	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.896		"	4.54		19.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.16		"	2.27		95.2	10-150				
Surrogate: d3-N-MeFOSAA	3.72		"	4.54		82.0	25-150				
Surrogate: d5-N-EtFOSAA	3.90		"	4.54		85.8	25-150				
Surrogate: M2-6:2 FTS	4.68		"	4.32		108	25-200				
Surrogate: M2-8:2 FTS	4.87		"	4.36		112	25-200				
Surrogate: M9PFNA	1.37		"	1.13		121	25-150				
Surrogate: M2-4:2 FTS	4.02		"	4.26		94.4	25-150				
Surrogate: d-N-MeFOSA	1.89		"	2.27		83.0	25-150				
Surrogate: d-N-EtFOSA	1.81		"	2.27		79.8	25-150				
Surrogate: M3HFPO-DA	10.6		"	9.11		116	25-150				
Surrogate: d9-N-EtFOSE	11.1		"	22.7		48.6	25-150				
Surrogate: d7-N-MeFOSE	13.4		"	22.7		59.1	25-150				

Batch BL30044 - EPA 1633 Prep

Blank (BL30044-BLK1) Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L
Perfluorohexanoic acid (PFHxA)	ND	4.00	"
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"
Perfluorooctanoic acid (PFOA)	ND	4.00	"
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"
Perfluorononanoic acid (PFNA)	ND	4.00	"
Perfluorodecanoic acid (PFDA)	ND	4.00	"
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"
Perfluorododecanoic acid (PFDoA)	ND	4.00	"
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"
N-MeFOSAA	ND	4.00	"
N-EtFOSAA	ND	4.00	"
Perfluoropentanoic acid (PFPeA)	ND	8.00	"
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	7.12	"
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	8.00	"
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"



PFAS Target compounds by LC/MS-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
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Batch BL30044 - EPA 1633 Prep

Blank (BL30044-BLK1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	ng/L								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	50.9		"	38.8		131	25-150				
Surrogate: M5PFHxA	57.3		"	41.7		138	25-150				
Surrogate: M4PFHpA	66.0		"	41.7		158	25-150				
Surrogate: M3PFHxS	60.9		"	39.5		154	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	47.2		"	41.7		113	25-150				
Surrogate: M6PFDA	30.5		"	20.8		147	25-150				
Surrogate: M7PFUdA	27.1		"	20.8		130	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	23.2		"	20.8		111	25-150				
Surrogate: M2PFTeDA	16.4		"	20.8		79.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.3		"	167		49.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.3		"	39.9		124	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	121		"	83.3		146	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	42.8		"	41.7		103	10-150				
Surrogate: d3-N-MeFOSAA	72.1		"	83.3		86.6	25-150				
Surrogate: d5-N-EtFOSAA	122		"	83.3		146	25-150				
Surrogate: M2-6:2 FTS	102		"	79.2		129	25-200				
Surrogate: M2-8:2 FTS	105		"	80.0		131	25-200				
Surrogate: M9PFNA	24.9		"	20.8		120	25-150				
Surrogate: M2-4:2 FTS	106		"	78.2		135	25-150				
Surrogate: d-N-MeFOSA	13.0		"	41.7		31.3	25-150				
Surrogate: d-N-EtFOSA	8.86		"	41.7		21.3	25-150				
Surrogate: M3HFPO-DA	274		"	167		164	25-150				
Surrogate: d9-N-EtFOSE	187		"	417		44.8	25-150				
Surrogate: d7-N-MeFOSE	213		"	417		51.0	25-150				



**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit
<b>Batch BL30044 - EPA 1633 Prep</b>										
<b>LCS (BL30044-BS1)</b>										
Prepared: 12/01/2023 Analyzed: 12/03/2023										
Perfluorobutanesulfonic acid (PFBS)	87.3	3.54	ng/L	70.8		123	50-150			
Perfluorohexanoic acid (PFHxA)	81.9	4.00	"	80.0		102	50-150			
Perfluoroheptanoic acid (PFHpA)	69.7	4.00	"	80.0		87.2	50-150			
Perfluorohexanesulfonic acid (PFHxS)	76.0	3.66	"	73.2		104	50-150			
Perfluorooctanoic acid (PFOA)	89.8	4.00	"	80.0		112	50-150			
Perfluorooctanesulfonic acid (PFOS)	86.4	3.72	"	74.4		116	50-150			
Perfluorononanoic acid (PFNA)	78.5	4.00	"	80.0		98.2	50-150			
Perfluorodecanoic acid (PFDA)	86.4	4.00	"	80.0		108	50-150			
Perfluoroundecanoic acid (PFUnA)	101	4.00	"	80.0		127	50-150			
Perfluorododecanoic acid (PFDoA)	101	4.00	"	80.0		127	50-150			
Perfluorotridecanoic acid (PFTrDA)	93.5	4.00	"	80.0		117	50-150			
Perfluorotetradecanoic acid (PFTA)	90.7	4.00	"	80.0		113	50-150			
N-MeFOSAA	104	4.00	"	80.0		130	50-150			
N-EtFOSAA	97.3	4.00	"	80.0		122	50-150			
Perfluoropentanoic acid (PFPeA)	173	8.00	"	160		108	50-150			
Perfluoro-1-octanesulfonamide (FOSA)	92.7	4.00	"	80.0		116	50-150			
Perfluoro-1-heptanesulfonic acid (PFHpS)	89.1	3.82	"	76.4		117	50-150			
Perfluoro-1-decanesulfonic acid (PFDS)	87.8	3.86	"	77.2		114	50-150			
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	362	15.2	"	304		119	50-150			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	391	15.4	"	307		127	50-150			
Perfluoro-n-butanoic acid (PFBA)	349	16.0	"	320		109	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	139	7.12	"	142		97.4	50-150			
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	153	8.00	"	160		95.6	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	113	8.00	"	160		70.6	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	156	8.00	"	160		97.4	50-150			
Perfluoro-1-pentanesulfonate (PFPeS)	76.5	3.76	"	75.2		102	50-150			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	310	15.0	"	300		103	50-150			
HFPO-DA (Gen-X)	147	16.0	"	160		92.0	50-150			
11CL-PF3OUdS	124	15.1	"	151		82.1	50-150			
9CL-PF3ONS	162	15.0	"	150		108	50-150			
ADONA	140	15.1	"	151		92.7	50-150			
Perfluorododecanesulfonic acid (PFDoS)	60.5	3.88	"	77.6		77.9	50-150			
Perfluoro-1-nonanesulfonic acid (PFNS)	100	3.84	"	76.8		130	50-150			
3-Perfluoropropyl propanoic acid (FPrPA)	348	10.0	"	320		109	50-150			
3-Perfluoropentyl propanoic acid (FPePA)	1720	50.0	"	1600		108	50-150			
3-Perfluoroheptyl propanoic acid (FHpPA)	1900	50.0	"	1600		119	50-150			
N-MeFOSE	670	40.0	"	800		83.8	50-150			
N-MeFOSA	76.9	4.00	"	80.0		96.1	50-150			
N-EtFOSE	851	40.0	"	800		106	50-150			
N-EtFOSA	78.5	4.00	"	80.0		98.2	50-150			
Surrogate: M3PFBS	45.2		"	38.8		116	25-150			
Surrogate: M5PFHxA	58.9		"	41.7		141	25-150			
Surrogate: M4PFHpA	64.1		"	41.7		154	25-150			
Surrogate: M3PFHxS	58.9		"	39.5		149	25-150			
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	50.5		"	41.7		121	25-150			
Surrogate: M6PFDA	30.0		"	20.8		144	25-150			
Surrogate: M7PFUdA	27.2		"	20.8		131	25-150			



PFAS Target compounds by LC/MS-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
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Batch BL30044 - EPA 1633 Prep

LCS (BL30044-BS1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	23.7		ng/L	20.8		114	25-150				
Surrogate: M2PFTeDA	18.7		"	20.8		89.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	66.5		"	167		39.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.3		"	39.9		124	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	122		"	83.3		147	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	40.0		"	41.7		96.0	10-150				
Surrogate: d3-N-MeFOSAA	71.4		"	83.3		85.7	25-150				
Surrogate: d5-N-EtFOSAA	74.0		"	83.3		88.9	25-150				
Surrogate: M2-6:2 FTS	99.3		"	79.2		125	25-200				
Surrogate: M2-8:2 FTS	92.9		"	80.0		116	25-200				
Surrogate: M9PFNA	28.4		"	20.8		137	25-150				
Surrogate: M2-4:2 FTS	93.5		"	78.2		120	25-150				
Surrogate: d-N-MeFOSA	12.6		"	41.7		30.3	25-150				
Surrogate: d-N-EtFOSA	7.81		"	41.7		18.7	25-150				
Surrogate: M3HFPO-DA	277		"	167		166	25-150				
Surrogate: d9-N-EtFOSE	44.5		"	417		10.7	25-150				
Surrogate: d7-N-MeFOSE	203		"	417		48.8	25-150				

LCS (BL30044-BS2)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	16.2	3.54	ng/L	14.2		114	50-150				
Perfluorohexanoic acid (PFHxA)	16.2	4.00	"	16.0		101	50-150				
Perfluoroheptanoic acid (PFHpA)	11.6	4.00	"	16.0		72.5	50-150				
Perfluorohexanesulfonic acid (PFHxS)	16.3	3.66	"	14.6		111	50-150				
Perfluorooctanoic acid (PFOA)	18.2	4.00	"	16.0		114	50-150				
Perfluorooctanesulfonic acid (PFOS)	19.9	3.72	"	14.9		134	50-150				
Perfluorononanoic acid (PFNA)	15.9	4.00	"	16.0		99.6	50-150				
Perfluorodecanoic acid (PFDA)	14.6	4.00	"	16.0		91.3	50-150				
Perfluoroundecanoic acid (PFUnA)	18.4	4.00	"	16.0		115	50-150				
Perfluorododecanoic acid (PFDoA)	17.0	4.00	"	16.0		106	50-150				
Perfluorotridecanoic acid (PFTrDA)	21.5	4.00	"	16.0		134	50-150				
Perfluorotetradecanoic acid (PFTA)	16.9	4.00	"	16.0		106	50-150				
N-MeFOSAA	19.7	4.00	"	16.0		123	50-150				
N-EtFOSAA	17.8	4.00	"	16.0		111	50-150				
Perfluoropentanoic acid (PFPeA)	32.9	8.00	"	32.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	19.6	4.00	"	16.0		123	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	18.6	3.82	"	15.3		122	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	17.8	3.86	"	15.4		115	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	76.3	15.2	"	60.8		125	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	75.8	15.4	"	61.4		123	50-150				
Perfluoro-n-butanoic acid (PFBA)	67.0	16.0	"	64.0		105	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	27.4	7.12	"	28.5		96.0	50-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	28.4	8.00	"	32.0		88.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	25.5	8.00	"	32.0		79.8	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	29.4	8.00	"	32.0		92.0	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	14.8	3.76	"	15.0		98.7	50-150				





**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>LCS (BL30044-BS2)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	64.5	15.0	ng/L	60.0		107		50-150			
HFPO-DA (Gen-X)	29.9	16.0	"	32.0		93.4		50-150			
11CL-PF3OUdS	23.2	15.1	"	30.2		76.7		50-150			
9CL-PF3ONS	34.1	15.0	"	29.9		114		50-150			
ADONA	27.9	15.1	"	30.2		92.3		50-150			
Perfluorododecanesulfonic acid (PFDoS)	10.2	3.88	"	15.5		65.5		50-150			
Perfluoro-1-nonanesulfonic acid (PFNS)	20.1	3.84	"	15.4		131		50-150			
3-Perfluoropropyl propanoic acid (FPrPA)	71.4	10.0	"	64.0		111		50-150			
3-Perfluoropentyl propanoic acid (FPePA)	330	50.0	"	320		103		50-150			
3-Perfluoroheptyl propanoic acid (FHpPA)	374	50.0	"	320		117		50-150			
N-MeFOSE	120	40.0	"	160		75.1		50-150			
N-MeFOSA	11.5	4.00	"	16.0		71.9		50-150			
N-EtFOSE	174	40.0	"	160		109		50-150			
N-EtFOSA	15.3	4.00	"	16.0		95.6		50-150			
Surrogate: M3PFBS	51.4		"	38.8		132		25-150			
Surrogate: M5PFHxA	58.2		"	41.7		140		25-150			
Surrogate: M4PFHpA	69.7		"	41.7		167		25-150			
Surrogate: M3PFHxS	64.1		"	39.5		162		25-150			
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	48.5		"	41.7		116		25-150			
Surrogate: M6PFDA	32.2		"	20.8		155		25-150			
Surrogate: M7PFUdA	30.7		"	20.8		148		25-150			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	26.2		"	20.8		126		25-150			
Surrogate: M2PFTeDA	15.0		"	20.8		72.1		10-150			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	88.4		"	167		52.9		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.8		"	39.9		112		25-150			
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	123		"	83.3		148		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	37.5		"	41.7		90.0		10-150			
Surrogate: d3-N-MeFOSAA	71.5		"	83.3		85.8		25-150			
Surrogate: d5-N-EtFOSAA	69.5		"	83.3		83.5		25-150			
Surrogate: M2-6:2 FTS	103		"	79.2		130		25-200			
Surrogate: M2-8:2 FTS	100		"	80.0		126		25-200			
Surrogate: M9PFNA	28.9		"	20.8		139		25-150			
Surrogate: M2-4:2 FTS	104		"	78.2		133		25-150			
Surrogate: d-N-MeFOSA	15.0		"	41.7		35.9		25-150			
Surrogate: d-N-EtFOSA	7.82		"	41.7		18.7		25-150			
Surrogate: M3HFPO-DA	270		"	167		162		25-150			
Surrogate: d9-N-EtFOSE	133		"	417		31.8		25-150			
Surrogate: d7-N-MeFOSE	166		"	417		39.8		25-150			



PFAS Target compounds by LC/MS-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
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>Duplicate (BL30044-DUP1)</b>	*Source sample: 23K1796-03 (Duplicate)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
Perfluorobutanesulfonic acid (PFBS)	0.622	1.60	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	1.81	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	1.81	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.65	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	1.81	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.68	"		ND					30	
Perfluorononanoic acid (PFNA)	14.0	1.81	"		11.4				20.8	30	
Perfluorodecanoic acid (PFDA)	ND	1.81	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.81	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.81	"		ND					30	
Perfluorotridecanoic acid (PFTriDA)	ND	1.81	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.81	"		ND					30	
N-MeFOSAA	ND	1.81	"		ND					30	
N-EtFOSAA	ND	1.81	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	3.62	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.81	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.73	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.75	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	6.87	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	6.95	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	7.23	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.22	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.62	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.62	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	0.366	3.62	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.70	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	6.78	"		ND					30	
HFPO-DA (Gen-X)	ND	7.23	"		ND					30	
11CL-PF3OUdS	ND	6.84	"		ND					30	
9CL-PF3ONS	ND	6.76	"		ND					30	
ADONA	ND	6.84	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.75	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.74	"		ND					30	
3-Perfluoropropyl propanoic acid (FPPrPA)	ND	4.52	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	22.6	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	22.6	"		ND					30	
N-MeFOSE	ND	18.1	"		ND					30	
N-MeFOSA	ND	1.81	"		ND					30	
N-EtFOSE	ND	18.1	"		ND					30	
N-EtFOSA	ND	1.81	"		ND					30	
Surrogate: M3PFBS	18.8		"	17.5		107	25-150				
Surrogate: M5PFHxA	27.2		"	18.9		144	25-150				
Surrogate: M4PFHpA	33.7		"	18.9		179	25-150				
Surrogate: M3PFHxS	29.9		"	17.9		167	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	27.2		"	18.9		144	25-150				
Surrogate: M6PFDA	13.5		"	9.41		143	25-150				
Surrogate: M7PFUdA	12.0		"	9.41		127	25-150				



**PFAS Target compounds by LC/MS-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	
<b>Batch BL30044 - EPA 1633 Prep</b>												
<b>Duplicate (BL30044-DUP1)</b>	<b>*Source sample: 23K1796-03 (Duplicate)</b>						<b>Prepared: 12/01/2023 Analyzed: 12/03/2023</b>					
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	7.98		ng/L	9.41		84.9	25-150					
Surrogate: M2PFTeDA	2.11		"	9.41		22.4	10-150					
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.638		"	75.5		0.845	25-150					
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	22.5		"	18.0		125	25-150					
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	2.42		"	37.7		6.41	25-150					
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	22.4		"	18.9		119	10-150					
Surrogate: d3-N-MeFOSAA	29.0		"	37.7		77.0	25-150					
Surrogate: d5-N-EtFOSAA	37.7		"	37.7		100	25-150					
Surrogate: M2-6:2 FTS	49.0		"	35.8		137	25-200					
Surrogate: M2-8:2 FTS	45.2		"	36.2		125	25-200					
Surrogate: M9PFNA	0.00		"	9.41			25-150					
Surrogate: M2-4:2 FTS	41.6		"	35.4		118	25-150					
Surrogate: d-N-MeFOSA	13.4		"	18.9		71.3	25-150					
Surrogate: d-N-EtFOSA	12.5		"	18.9		66.3	25-150					
Surrogate: M3HFPO-DA	118		"	75.5		157	25-150					
Surrogate: d9-N-EtFOSE	30.9		"	189		16.4	25-150					
Surrogate: d7-N-MeFOSE	65.2		"	189		34.6	25-150					



**Organochlorine Pesticides by GC/ECD - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL30085 - EPA 3510C/1311**

**Blank (BL30085-BLK1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Chlordane, total	ND	0.200	ug/L										
Endrin	ND	0.0400	"										
gamma-BHC (Lindane)	ND	0.0400	"										
Heptachlor	ND	0.0400	"										
Heptachlor epoxide	ND	0.0400	"										
Methoxychlor	ND	0.0400	"										
Toxaphene	ND	1.00	"										
<i>Surrogate: Decachlorobiphenyl</i>	<i>1.13</i>		<i>"</i>	<i>2.00</i>		<i>56.5</i>		<i>30-120</i>					
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>1.25</i>		<i>"</i>	<i>2.00</i>		<i>62.5</i>		<i>30-120</i>					

**LCS (BL30085-BS1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Endrin	0.972	0.0400	ug/L	1.00		97.2		40-120					
gamma-BHC (Lindane)	1.06	0.0400	"	1.00		106		40-120					
Heptachlor	0.815	0.0400	"	1.00		81.5		40-120					
Heptachlor epoxide	0.997	0.0400	"	1.00		99.7		40-120					
Methoxychlor	0.827	0.0400	"	1.00		82.7		40-120					
<i>Surrogate: Decachlorobiphenyl</i>	<i>1.44</i>		<i>"</i>	<i>2.00</i>		<i>72.2</i>		<i>30-120</i>					
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>1.23</i>		<i>"</i>	<i>2.00</i>		<i>61.6</i>		<i>30-120</i>					

**LCS Dup (BL30085-BSD1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Endrin	0.921	0.0400	ug/L	1.00		92.1		40-120		5.38		30	
gamma-BHC (Lindane)	0.976	0.0400	"	1.00		97.6		40-120		8.09		30	
Heptachlor	0.754	0.0400	"	1.00		75.4		40-120		7.69		30	
Heptachlor epoxide	0.927	0.0400	"	1.00		92.7		40-120		7.22		30	
Methoxychlor	0.814	0.0400	"	1.00		81.4		40-120		1.55		30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>1.18</i>		<i>"</i>	<i>2.00</i>		<i>58.9</i>		<i>30-120</i>					
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>1.26</i>		<i>"</i>	<i>2.00</i>		<i>63.2</i>		<i>30-120</i>					



**Organochlorine Pesticides by GC/ECD - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL30085 - EPA 3510C/1311**

**Leach Fluid Blank (BL30085-LBK1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Chlordane, total	ND	0.200	ug/L										
Endrin	ND	0.0400	"										
gamma-BHC (Lindane)	ND	0.0400	"										
Heptachlor	ND	0.0400	"										
Heptachlor epoxide	ND	0.0400	"										
Methoxychlor	ND	0.0400	"										
Toxaphene	ND	1.00	"										
<i>Surrogate: Decachlorobiphenyl</i>	1.37		"	2.00		68.6		30-120					
<i>Surrogate: Tetrachloro-m-xylene</i>	1.11		"	2.00		55.6		30-120					

**Matrix Spike (BL30085-MS1)**

\*Source sample: 23K1898-33 (Matrix Spike)

Prepared: 12/03/2023 Analyzed: 12/04/2023

Endrin	0.830	0.0400	ug/L	1.00	ND	83.0		30-150					
gamma-BHC (Lindane)	0.856	0.0400	"	1.00	ND	85.6		30-150					
Heptachlor	0.694	0.0400	"	1.00	ND	69.4		30-150					
Heptachlor epoxide	0.819	0.0400	"	1.00	ND	81.9		30-150					
Methoxychlor	0.790	0.0400	"	1.00	ND	79.0		30-150					
<i>Surrogate: Decachlorobiphenyl</i>	1.65		"	2.00		82.4		30-120					
<i>Surrogate: Tetrachloro-m-xylene</i>	1.25		"	2.00		62.4		30-120					



**Polychlorinated Biphenyls by GC/ECD - 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
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**Batch BL30462 - EPA 3550C**

**Blank (BL30462-BLK2)**

Prepared & Analyzed: 12/07/2023

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0467		"	0.0667		70.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0447		"	0.0667		67.0	30-140				

**LCS (BL30462-BS2)**

Prepared & Analyzed: 12/07/2023

Aroclor 1016	0.287	0.0167	mg/kg wet	0.333		86.2	40-130				
Aroclor 1260	0.295	0.0167	"	0.333		88.5	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0400		"	0.0667		60.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0393		"	0.0667		59.0	30-140				



**Chlorinated Herbicides by GC/ECD - 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
<b>Batch BL30148 - EPA 3535A/1311</b>											
<b>Blank (BL30148-BLK1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	ND	5.00	ug/L								
2,4-D	ND	5.00	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	94.2		"	125		75.4	10-150				
<b>LCS (BL30148-BS1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	36.5	5.00	ug/L	40.0		91.2	10-139				
2,4-D	40.8	5.00	"	40.0		102	10-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	116		"	125		93.0	10-150				
<b>LCS Dup (BL30148-BSD1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	16.5	5.00	ug/L	40.0		41.2	10-139		75.5	30	Non-dir.
2,4-D	19.2	5.00	"	40.0		48.1	10-140		71.7	30	Non-dir.
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	73.8		"	125		59.0	10-150				
<b>Leach Fluid Blank (BL30148-LBK1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	ND	5.00	ug/L								
2,4-D	ND	5.00	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	96.5		"	125		77.2	10-150				
<b>Matrix Spike (BL30148-MS1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
	*Source sample: 23K1898-32 (Matrix Spike)										
2,4,5-TP (Silvex)	12.5	5.00	ug/L	40.0	ND	31.2	20-140				
2,4-D	14.2	5.00	"	40.0	ND	35.6	20-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	22.8		"	125		18.2	10-150				





**Gas Chromatography/Flame Ionization Detector - 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
<b>Batch BK31831 - EPA 5035A</b>											
<b>Blank (BK31831-BLK1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-GRO	ND	80.0	mg/kg wet								
Surrogate: SURR: p-Bromofluorobenzene	206		ug/L	200		103	52-146				
<b>Duplicate (BK31831-DUP1)</b>										Prepared & Analyzed: 12/01/2023	
*Source sample: 23K1690-02 (Duplicate)											
Total Petroleum Hydrocarbons-GRO	1200	105	mg/kg dry		1040				14.0	30	
Surrogate: SURR: p-Bromofluorobenzene	174		ug/L	200		86.9	52-146				
<b>Matrix Spike (BK31831-MS1)</b>										Prepared & Analyzed: 12/01/2023	
*Source sample: 23K1690-02 (Matrix Spike)											
Total Petroleum Hydrocarbons-GRO	16300		ug/L	8000	7970	103	70-130				
Surrogate: SURR: p-Bromofluorobenzene	167		"	200		83.7	52-146				
<b>Reference (BK31831-SRM1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-GRO	140	20.0	mg/kg wet	237		59.0	24.9-274				
Surrogate: SURR: p-Bromofluorobenzene	200		ug/L	200		99.9	52-146				
<b>Batch BK31986 - EPA 3550C</b>											
<b>Blank (BK31986-BLK1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-DRO	ND	9.90	mg/kg wet								
Surrogate: Triacontane	7.03		"	9.90		71.0	30-150				
<b>LCS (BK31986-BS1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-DRO	115	9.90	mg/kg wet	170		67.7	40-140				
Surrogate: Triacontane	7.31		"	9.90		73.8	30-150				
<b>Matrix Spike (BK31986-MS1)</b>										Prepared & Analyzed: 12/01/2023	
*Source sample: 23K1713-01 (Matrix Spike)											
Total Petroleum Hydrocarbons-DRO	148	10.5	mg/kg dry	180	10.5	76.4	30-150				
Surrogate: Triacontane	7.59		"	10.5		72.6	30-150				



**Gas Chromatography/Flame Ionization Detector - 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
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**Batch BK31986 - EPA 3550C**

<b>Matrix Spike Dup (BK31986-MSD1)</b>	<b>*Source sample: 23K1713-01 (Matrix Spike Dup)</b>						<b>Prepared &amp; Analyzed: 12/01/2023</b>				
Total Petroleum Hydrocarbons-DRO	158	10.5	mg/kg dry	180	10.5	82.2	30-150		6.79	30	
Surrogate: <i>Triacontane</i>	6.90		"	10.5		66.0	30-150				



**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
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**Batch BL30267 - EPA 3050B**

**Blank (BL30267-BLK1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

**Duplicate (BL30267-DUP1)**

\*Source sample: 23L0133-01 (Duplicate)

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	10600	5.10	mg/kg dry		8030				27.9	35	
Antimony	ND	2.55	"		ND					35	
Arsenic	6.17	1.53	"		2.07				99.6	35	Non-dir.
Barium	78.6	2.55	"		76.9				2.22	35	
Beryllium	ND	0.051	"		ND					35	
Cadmium	ND	0.306	"		ND					35	
Calcium	53500	5.10	"		55200				3.17	35	
Chromium	32.3	0.510	"		50.5				43.8	35	Non-dir.
Cobalt	6.80	0.408	"		6.76				0.509	35	
Copper	31.7	2.04	"		27.4				14.6	35	
Iron	13500	25.5	"		12000				11.9	35	
Lead	45.6	0.510	"		52.6				14.3	35	
Magnesium	7160	5.10	"		13800				63.2	35	Non-dir.
Manganese	234	0.510	"		281				18.4	35	
Nickel	25.3	1.02	"		84.5				108	35	Non-dir.
Potassium	2140	5.10	"		989				73.5	35	Non-dir.
Selenium	ND	2.55	"		ND					35	
Silver	ND	0.514	"		ND					35	
Sodium	388	51.0	"		243				46.1	35	Non-dir.
Thallium	ND	2.55	"		ND					35	
Vanadium	26.9	1.02	"		24.4				9.77	35	
Zinc	81.1	2.54	"		128				44.7	35	Non-dir.



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

**Batch BL30267 - EPA 3050B**

<b>Matrix Spike (BL30267-MS1)</b>	<b>*Source sample: 23L0133-01 (Matrix Spike)</b>						<b>Prepared: 12/05/2023 Analyzed: 12/06/2023</b>			
Aluminum	8390	5.10	mg/kg dry	204	8030	176	75-125	High Bias		
Antimony	9.82	2.55	"	25.5	ND	38.5	75-125	Low Bias		
Arsenic	209	1.53	"	204	2.07	102	75-125			
Barium	259	2.55	"	204	76.9	89.5	75-125			
Beryllium	4.15	0.051	"	5.10	ND	81.4	75-125			
Cadmium	4.72	0.306	"	5.10	ND	92.5	75-125			
Calcium	71100	5.10	"	102	55200	NR	75-125	High Bias		
Chromium	186	0.510	"	20.4	50.5	666	75-125	High Bias		
Cobalt	50.6	0.408	"	51.0	6.76	85.9	75-125			
Copper	52.6	2.04	"	25.5	27.4	98.9	75-125			
Iron	11100	25.5	"	102	12000	NR	75-125	Low Bias		
Lead	83.7	0.510	"	51.0	52.6	60.9	75-125	Low Bias		
Magnesium	11000	5.10	"	102	13800	NR	75-125	Low Bias		
Manganese	280	0.510	"	51.0	281	NR	75-125	Low Bias		
Nickel	65.1	1.02	"	51.0	84.5	NR	75-125	Low Bias		
Potassium	1200	5.10	"	102	989	211	75-125	High Bias		
Selenium	205	2.55	"	204	ND	101	75-125			
Silver	2.10	0.514	"	5.10	ND	41.2	75-125	Low Bias		
Sodium	394	51.0	"	102	243	148	75-125	High Bias		
Thallium	170	2.55	"	204	ND	83.3	75-125			
Vanadium	73.9	1.02	"	51.0	24.4	97.2	75-125			
Zinc	472	2.54	"	51.0	128	675	75-125	High Bias		

<b>Post Spike (BL30267-PS1)</b>	<b>*Source sample: 23L0133-01 (Post Spike)</b>						<b>Prepared: 12/05/2023 Analyzed: 12/06/2023</b>			
Aluminum	79.9		ug/mL	2.00	78.7	57.8	75-125	Low Bias		
Antimony	0.243		"	0.250	0.013	92.2	75-125			
Arsenic	1.99		"	2.00	0.020	98.3	75-125			
Barium	2.61		"	2.00	0.754	92.9	75-125			
Beryllium	0.041		"	0.0500	-0.005	82.7	75-125			
Cadmium	0.045		"	0.0500	0.001	86.8	75-125			
Calcium	539		"	1.00	541	NR	75-125	Low Bias		
Chromium	0.670		"	0.200	0.495	87.7	75-125			
Cobalt	0.510		"	0.500	0.066	88.7	75-125			
Copper	0.520		"	0.250	0.268	101	75-125			
Iron	117		"	1.00	118	NR	75-125	Low Bias		
Lead	0.943		"	0.500	0.516	85.4	75-125			
Magnesium	134		"	1.00	135	NR	75-125	Low Bias		
Manganese	3.18		"	0.500	2.75	85.4	75-125			
Nickel	1.25		"	0.500	0.829	85.2	75-125			
Potassium	10.6		"	1.00	9.70	85.7	75-125			
Selenium	1.96		"	2.00	-0.003	97.8	75-125			
Silver	0.018		"	0.0500	-0.032	35.3	75-125	Low Bias		
Sodium	4.22		"	1.00	2.38	184	75-125	High Bias		
Thallium	1.65		"	2.00	-0.008	82.4	75-125			
Vanadium	0.699		"	0.500	0.239	92.0	75-125			
Zinc	1.70		"	0.500	1.25	89.6	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
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**Batch BL30267 - EPA 3050B**

**Reference (BL30267-SRM1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	7550	4.17	mg/kg wet	9490		79.5	45.4-128.6				
Antimony	59.9	2.08	"	248		24.1	3-103.2				
Arsenic	124	1.25	"	163		76.0	68.7-100.6				
Barium	271	2.08	"	319		85.1	82.5-115.7				
Beryllium	93.4	0.042	"	119		78.5	77.7-109.2				
Cadmium	103	0.250	"	130		79.0	75.2-106.2				
Calcium	4270	4.17	"	5000		85.4	80.6-114.4				
Chromium	133	0.417	"	153		87.2	77.8-111.8				
Cobalt	133	0.333	"	153		87.1	79.1-109.8				
Copper	225	1.67	"	245		91.9	80.4-111				
Iron	6770	20.8	"	7540		89.8	69.8-144.6				
Lead	185	0.417	"	220		84.0	80-113.6				
Magnesium	1840	4.17	"	1980		92.8	85.9-129.3				
Manganese	388	0.417	"	431		90.1	79.6-114.2				
Nickel	151	0.830	"	175		86.5	76.6-108.6				
Potassium	1410	4.17	"	1570		89.6	80.9-131.2				
Selenium	147	2.08	"	156		94.3	80.8-118.6				
Silver	43.6	0.420	"	82.9		52.6	76.7-114.7	Low Bias			
Sodium	558	41.7	"	453		123	72.2-119.7	High Bias			
Thallium	75.2	2.08	"	99.4		75.6	75.8-110.7	Low Bias			
Vanadium	140	0.830	"	170		82.6	75.3-114.1				
Zinc	336	2.08	"	201		167	79.6-115.92	High Bias			

**Batch BL30425 - EPA 3015A/1311**

**Blank (BL30425-BLK1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	ND	0.017	mg/L								
Barium	ND	0.028	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Lead	ND	0.006	"								
Selenium	ND	0.028	"								
Silver	ND	0.006	"								



**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
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**Batch BL30425 - EPA 3015A/1311**

**LCS (BL30425-BS1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	1.69		ug/mL	2.00		84.3	80-120				
Barium	1.93		"	2.00		96.4	80-120				
Cadmium	0.045		"	0.0500		89.1	80-120				
Chromium	0.179		"	0.200		89.7	80-120				
Lead	0.451		"	0.500		90.2	80-120				
Selenium	1.43		"	2.00		71.7	80-120	Low Bias			
Silver	0.045		"	0.0500		89.3	80-120				

**Duplicate (BL30425-DUP1)**

\*Source sample: 23L0158-02 (Duplicate)

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	ND	0.375	mg/L		ND						20
Barium	ND	0.625	"		ND						20
Cadmium	ND	0.075	"		ND						20
Chromium	ND	0.125	"		ND						20
Lead	ND	0.125	"		ND						20
Selenium	ND	0.625	"		ND						20
Silver	ND	0.125	"		ND						20

**Leach Fluid Blank (BL30425-LBK1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	ND	0.375	mg/L								
Barium	ND	0.625	"								
Cadmium	ND	0.075	"								
Chromium	ND	0.125	"								
Lead	ND	0.125	"								
Selenium	ND	0.625	"								
Silver	ND	0.125	"								

**Matrix Spike (BL30425-MS1)**

\*Source sample: 23L0158-02 (Matrix Spike)

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	46.5	0.375	mg/L	50.0	ND	93.0	75-125				
Barium	49.9	0.625	"	50.0	ND	99.8	75-125				
Cadmium	1.20	0.075	"	1.25	ND	95.7	75-125				
Chromium	4.67	0.125	"	5.00	ND	93.4	75-125				
Lead	11.7	0.125	"	12.5	ND	93.6	75-125				
Selenium	39.9	0.625	"	50.0	ND	79.8	75-125				
Silver	1.09	0.125	"	1.25	ND	86.9	75-125				



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result	Limits		Limit			

**Batch BL30425 - EPA 3015A/1311**

<b>Post Spike (BL30425-PS1)</b>	<b>*Source sample: 23L0158-02 (Post Spike)</b>						<b>Prepared: 12/07/2023 Analyzed: 12/08/2023</b>				
Arsenic	1.84		ug/mL	2.00	-0.014	92.1	75-125				
Barium	2.01		"	2.00	0.004	100	75-125				
Cadmium	0.047		"	0.0500	-0.00004	94.1	75-125				
Chromium	0.185		"	0.200	0.001	92.1	75-125				
Lead	0.461		"	0.500	-0.005	92.2	75-125				
Selenium	1.56		"	2.00	-0.011	78.1	75-125				
Silver	0.049		"	0.0500	-0.0008	98.5	75-125				





**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
<b>Batch BL30215 - EPA SW846-7470A</b>											
<b>Blank (BL30215-BLK1)</b> Prepared & Analyzed: 12/05/2023											
Mercury	ND	0.000200	mg/L								
<b>Blank (BL30215-BLK2)</b> Prepared & Analyzed: 12/05/2023											
Mercury	ND	0.000200	mg/L								
<b>LCS (BL30215-BS1)</b> Prepared & Analyzed: 12/05/2023											
Mercury	0.00212	0.000200	mg/L	0.00200		106	80-120				
<b>LCS (BL30215-BS2)</b> Prepared & Analyzed: 12/05/2023											
Mercury	0.00202	0.000200	mg/L	0.00200		101	80-120				
<b>Leach Fluid Blank (BL30215-LBK1)</b> Prepared & Analyzed: 12/05/2023											
Mercury	0.000148	0.000200	mg/L								
<b>Batch BL30481 - EPA 7473 soil</b>											
<b>Blank (BL30481-BLK1)</b> Prepared & Analyzed: 12/07/2023											
Mercury	ND	0.0300	mg/kg wet								
<b>Duplicate (BL30481-DUP1)</b> *Source sample: 23K1831-01 (IV5_WC-01) Prepared & Analyzed: 12/07/2023											
Mercury	1.07	0.0346	mg/kg dry		3.04				96.0	35	Non-dir.
<b>Matrix Spike (BL30481-MS1)</b> *Source sample: 23K1831-01 (IV5_WC-01) Prepared & Analyzed: 12/07/2023											
Mercury	1.30		mg/kg	0.500	2.64	NR	75-125	Low Bias			
<b>Reference (BL30481-SRM1)</b> Prepared & Analyzed: 12/07/2023											
Mercury	19.548		mg/kg	18.2		107	59.9-140.1				



**Wet Chemistry Parameters - 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
<b>Batch BL30146 - Analysis Preparation</b>											
<b>Blank (BL30146-BLK1)</b>											
Reactivity - Sulfide	ND	15.0	mg/kg						Prepared & Analyzed: 12/04/2023		
<b>Duplicate (BL30146-DUP1)</b>											
*Source sample: 23K1862-01 (Duplicate)											
Reactivity - Sulfide	24.0	15.0	mg/kg		19.0				23.3	50	
<b>Batch BL30147 - Analysis Preparation</b>											
<b>Blank (BL30147-BLK1)</b>											
Reactivity - Cyanide	Non-Reactive	0.250	mg/kg						Prepared & Analyzed: 12/04/2023		
<b>Batch BL30313 - Analysis Preparation</b>											
<b>Duplicate (BL30313-DUP1)</b>											
*Source sample: 23L0238-07 (Duplicate)											
pH	11.3	0.500	pH units		11.3				0.531	10	



Miscellaneous Physical Parameters - 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
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**Batch BL30153 - % Solids Prep**

<b>Duplicate (BL30153-DUP1)</b>	*Source sample: 23K1831-01 (IV5_WC-01)						Prepared & Analyzed: 12/04/2023				
% Solids	86.1	0.100	%		86.6				0.511	20	



**Leachate Preparations - 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
<b>Batch BL30046 - EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS</b>											
<b>Blank (BL30046-BLK1)</b>						Prepared: 12/01/2023 Analyzed: 12/02/2023					
TCLP Extraction	Completed	1.00	N/A								
<b>Batch BL30051 - EPA SW 846-1311 TCLP ext. for metals</b>											
<b>Blank (BL30051-BLK1)</b>						Prepared: 12/01/2023 Analyzed: 12/02/2023					
TCLP Extraction	Completed	1.00	N/A								
<b>Batch BL30053 - EPA SW 846-1311 TCLP ZHE for VOA</b>											
<b>Blank (BL30053-BLK1)</b>						Prepared: 12/01/2023 Analyzed: 12/04/2023					
TCLP Extraction	Completed	1.00	N/A								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K1831-01	IV5_WC-01	40mL 01_Clear Vial Cool to 4° C
23K1831-01	IV5_WC-01	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
23K1831-03	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

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.
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.
P	This qualifier indicates the compound detected exhibited greater than 40% between the quantitation and confirmatory columns.
NonReac	Non-Reactive
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
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.
IGN-01	Non-Ignit.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
EXT-Temp	Extraction temperature slightly exceeded acceptance range.
EXT-COMP	Completed
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 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.



# Field Chain-of-Custody Record

YORK Project No. **23K1831**

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK Page **1** of **1**

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.

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company: <b>LaBella Associates</b>	Company: <b>IL</b>	Company: <b>IL</b>		Company: <b>IL</b>		<b>2000335</b>		RUSH - Next Day	
Address: <b>4 Bethsh American Latham, NY 12110</b>	Address: <b>IL</b>	Address: <b>IL</b>		Address: <b>IL</b>		<b>IUS - Brookfield Newburgh</b>		RUSH - Two Day	
Phone: <b>518 782 1210</b>	Phone: <b>IL</b>	Phone: <b>IL</b>		Phone: <b>IL</b>		<b>YOUR PO#: 2000335</b>		RUSH - Three Day	
Contact: <b>Branson Fields</b>	Contact: <b>IL</b>	Contact: <b>IL</b>		Contact: <b>IL</b>		<b>Standard (6-9 Day) X</b>		RUSH - Four Day	
E-mail: <b>bfields@labella.com</b>	E-mail: <b>IL</b>	E-mail: <b>IL</b>		E-mail: <b>IL</b>		<b>PFAS Standard is 7-10 Days</b>		RUSH - Five Day	

*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.*

<b>Matrix Codes</b>	<b>Samples From</b>	<b>Report / EDD Type (circle selections)</b>	<b>YORK Reg. Comp.</b>
S - soil / solid	New York	<input checked="" type="checkbox"/> Summary Report	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	<input type="checkbox"/> QA Report	
DW - drinking water	Connecticut	<input type="checkbox"/> CMDP	
WW - wastewater	Pennsylvania	<input checked="" type="checkbox"/> Standard Excel EDD	
O - Oil   Other:	Other:	<input type="checkbox"/> NY ASP B Package	

Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
S	11/29/23 1200	TCL VOCs, TCL SVOCs, TAL Metals; PCBs pH, ignitability, reactive sulfide/cyanide, TPH DRO/BRO; TCLP VOCs, SVOCs, TAL Metals; Pesticides, Herbicides; PFAS (1633)	8oz, 4oz, 1/4, 1/2	8
QA/QC	11/29/23 1235	PFAS (1633)	250ml	2
QA/QC	11/29/23 1300	TCL VOCs	40ml	2

**Comments:**

Samples iced/chilled at time of lab pickup? circle Yes or No **(Yes)**

1. Samples Relinquished by / Company **Branson Fields / Labella 11/29/23 15:00** Date/Time

2. Samples Received by / Company **LaBella POK Sample fridge 11/29/23 15:00** Date/Time

3. Samples Relinquished by / Company **Cherie Carteri 11/30/23 15:00** Date/Time

4. Samples Received by / Company **Cherie Carteri 11/30/23 15:00** Date/Time

Preservation: (check all that apply)

HCl  MeOH  HNO3  H2SO4  NaOH  ZnAc  Ascorbic Acid  Other: **IUE**

Special Instruction: Field Filtered  Lab to Filter

Temperature **1.6** Degrees C



# Technical Report

prepared for:

**LaBella Associates (Poughkeepsie)**

21 Fox Street

Poughkeepsie NY, 12601

**Attention: Branson Fields**

Report Date: 12/08/2023

**Client Project ID: 2222335 IV5-Brookfield Newburgh**

York Project (SDG) No.: 23K1837

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  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 12/08/2023  
Client Project ID: 2222335 IV5-Brookfield Newburgh  
York Project (SDG) No.: 23K1837

**LaBella Associates (Poughkeepsie)**  
21 Fox Street  
Poughkeepsie NY, 12601  
Attention: Branson Fields

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## 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 30, 2023 and listed below. The project was identified as your project: **2222335 IV5-Brookfield Newburgh**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23K1837-01	B-01 (4-6 ft)	Soil	11/29/2023	11/30/2023
23K1837-02	B-02 (6-8 ft)	Soil	11/29/2023	11/30/2023
23K1837-03	B-03 (5-7 ft)	Soil	11/29/2023	11/30/2023
23K1837-04	B-04 (5-7 ft)	Soil	11/29/2023	11/30/2023
23K1837-05	B-05 (5-7 ft)	Soil	11/29/2023	11/30/2023
23K1837-06	IV5_B_FB	Water	11/29/2023	11/30/2023
23K1837-07	Trip Blank	Water	11/29/2023	11/30/2023

## **General Notes for York Project (SDG) No.: 23K1837**

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:** 12/08/2023

Cassie L. Mosher  
Laboratory Manager





### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1837	2222335 IV5-Brookfield Newburgh	Soil	November 29, 2023 8:20 am	11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
71-55-6	1,1,1-Trichloroethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-34-3	1,1-Dichloroethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-35-4	1,1-Dichloroethylene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	12/05/2023 12:30	12/06/2023 03:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
106-93-4	1,2-Dibromoethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
107-06-2	1,2-Dichloroethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
78-87-5	1,2-Dichloropropane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
123-91-1	1,4-Dioxane	ND	ICVE, IS-LO	ug/kg dry	46	91	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
78-93-3	2-Butanone	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
591-78-6	2-Hexanone	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS





### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
67-64-1	Acetone	22	IS-LO	ug/kg dry	4.6	9.1	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
107-02-8	Acrolein	ND	IS-LO	ug/kg dry	4.6	9.1	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
107-13-1	Acrylonitrile	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
71-43-2	Benzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
74-97-5	Bromochloromethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
75-27-4	Bromodichloromethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-25-2	Bromoform	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
74-83-9	Bromomethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-15-0	Carbon disulfide	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
56-23-5	Carbon tetrachloride	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-00-3	Chloroethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
67-66-3	Chloroform	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
74-87-3	Chloromethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
110-82-7	Cyclohexane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
124-48-1	Dibromochloromethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
74-95-3	Dibromomethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
75-71-8	Dichlorodifluoromethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS



### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
79-20-9	Methyl acetate	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
108-87-2	Methylcyclohexane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
75-09-2	<b>Methylene chloride</b>	<b>8.6</b>	J, IS-LO	ug/kg dry	4.6	9.1	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/06/2023 03:40	SS
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	4.6	9.1	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/06/2023 03:40	SS
99-87-6	p-Isopropyltoluene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
100-42-5	Styrene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 03:40	SS
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
127-18-4	Tetrachloroethylene	ND	ICVE, IS-LO, QL-02	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
108-88-3	Toluene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
79-01-6	Trichloroethylene	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-69-4	Trichlorofluoromethane	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
75-01-4	Vinyl Chloride	ND	IS-LO	ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	6.8	14	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 03:40	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>	<b>Acceptance Range</b>								





### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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: SURRE: 1,2-Dichloroethane-d4	116 %	IS-LO		77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %	IS-LO		85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	107 %	IS-LO		76-130						

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-



### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
100-02-7	4-Nitrophenol	ND	CCVE	mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
62-53-3	Aniline	ND		mg/kg dry	0.191	0.382	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.191	0.382	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-



### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

York Project (SDG) No.

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>12.7</b>		mg/kg dry	0.239	0.478	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:41	12/06/2023 03:45	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0955	0.191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 12:44	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-



### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

York Project (SDG) No.

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Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
85-01-8	Phenanthrene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0479	0.0955	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-
110-86-1	Pyridine	ND		mg/kg dry	0.191	0.382	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 12:44	KH-

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	64.0 %
13127-88-3	Surrogate: SURR: Phenol-d6	61.8 %
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	66.4 %
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.6 %
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	89.4 %
1718-51-0	Surrogate: SURR: Terphenyl-d14	68.2 %

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.129	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0615	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ



### Sample Information

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2222335 IV5-Brookfield Newburgh

Soil

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11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.122	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.208	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
335-67-1	<b>Perfluorooctanoic acid (PFOA)</b>	<b>9.47</b>		ug/kg dry	0.200	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.194	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
375-95-1	<b>Perfluorononanoic acid (PFNA)</b>	<b>1.40</b>		ug/kg dry	0.219	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.222	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.230	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.189	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.145	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.120	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.172	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.225	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.126	0.464	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.169	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.180	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.222	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.690	0.882	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.876	0.891	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.126	0.928	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ug/kg dry	0.161	0.413	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
151772-58-6	* Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ug/kg dry	0.224	0.464	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0719	0.464	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.111	0.464	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ



### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.182	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.690	0.870	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.706	0.928	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.361	0.877	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.285	0.868	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.202	0.877	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.196	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.144	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:03	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.736	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.43	5.80	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.74	5.80	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.709	2.32	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.209	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.809	2.32	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.230	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:03	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	59.4 %	25-150
Surrogate: M5PFHxA	88.5 %	25-150
Surrogate: M4PFHpA	121 %	25-150
Surrogate: M3PFHxS	124 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	108 %	25-150
Surrogate: M6PFDA	142 %	25-150
Surrogate: M7PFUDA	117 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	101 %	25-150
Surrogate: M2PFTeDA	103 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	2.47 %	25-150





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2222335 IV5-Brookfield Newburgh

Soil

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11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	120 %			25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	10.1 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	66.5 %			10-150						
	Surrogate: d3-N-MeFOSAA	98.7 %			25-150						
	Surrogate: d5-N-EtFOSAA	79.7 %			25-150						
	Surrogate: M2-6:2 FTS	147 %			25-200						
	Surrogate: M2-8:2 FTS	190 %			25-200						
	Surrogate: M9PFNA	%			25-150						
	Surrogate: M2-4:2 FTS	101 %			25-150						
	Surrogate: d-N-MeFOSA	43.7 %			25-150						
	Surrogate: d-N-EtFOSA	18.7 %			25-150						
	Surrogate: M3HFPO-DA	97.9 %			25-150						
	Surrogate: d9-N-EtFOSE	30.3 %			25-150						
	Surrogate: d7-N-MeFOSE	51.4 %			25-150						

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
309-00-2	Aldrin	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
319-84-6	alpha-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 22:34	BCJ
319-85-7	beta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
319-86-8	delta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
60-57-1	Dieldrin	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
959-98-8	Endosulfan I	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854	12/06/2023 08:54	12/06/2023 22:34	BCJ





### Sample Information

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:20 am

11/30/2023

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
72-20-8	Endrin	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 22:34	BCJ
76-44-8	Heptachlor	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
72-43-5	Methoxychlor	ND		mg/kg dry	0.00186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
8001-35-2	Toxaphene	ND		mg/kg dry	0.186	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:34	BCJ
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0373	5	EPA 8081B Certifications:	12/06/2023 08:54	12/06/2023 22:34	BCJ
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	59.5 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	44.6 %		30-150						

**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:36	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:36	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:36	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:36	BCJ
12672-29-6	<b>Aroclor 1248</b>	<b>0.0307</b>		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:36	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:36	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:36	BCJ



### Sample Information

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2222335 IV5-Brookfield Newburgh

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**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	0.0307		mg/kg dry	0.0188	1	EPA 8082A	12/06/2023 08:54	12/07/2023 02:36	BCJ
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
877-09-8	Surrogate: Tetrachloro-m-xylene	43.0 %		30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	37.5 %		30-120						

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11900		mg/kg dry	4.83	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-36-0	Antimony	33.6		mg/kg dry	2.42	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-38-2	Arsenic	4.34		mg/kg dry	1.45	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-39-3	Barium	829		mg/kg dry	2.41	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-41-7	Beryllium	0.205		mg/kg dry	0.049	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-43-9	Cadmium	12.2		mg/kg dry	0.290	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-70-2	Calcium	28600		mg/kg dry	4.84	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-47-3	Chromium	23.2		mg/kg dry	0.484	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-48-4	Cobalt	4.00		mg/kg dry	0.386	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-50-8	Copper	34.9		mg/kg dry	1.93	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7439-89-6	Iron	20400		mg/kg dry	24.2	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7439-92-1	Lead	148		mg/kg dry	0.484	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7439-95-4	Magnesium	20300		mg/kg dry	4.84	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7439-96-5	Manganese	461		mg/kg dry	0.484	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-02-0	Nickel	14.5		mg/kg dry	0.963	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7440-09-7	Potassium	1210		mg/kg dry	4.84	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:36	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			



### Sample Information

**Client Sample ID:** B-01 (4-6 ft)

**York Sample ID:** 23K1837-01

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 8:20 am	<u>Date Received</u> 11/30/2023
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.42	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:36	CEG
7440-22-4	Silver	ND		mg/kg dry	0.487	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:36	CEG
7440-23-5	Sodium	1610		mg/kg dry	48.4	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:36	CEG
7440-28-0	Thallium	ND		mg/kg dry	2.42	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:36	CEG
7440-62-2	Vanadium	18.9		mg/kg dry	0.963	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:36	CEG
7440-66-6	Zinc	49.0		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:36	CEG

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

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/kg dry	0.0348	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044	12/07/2023 16:10	12/07/2023 20:47	AGNR

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.2		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/04/2023 13:58	12/04/2023 16:31	PMB

### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 8:45 am	<u>Date Received</u> 11/30/2023
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**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	12/05/2023 12:30	12/06/2023 05:26	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>320</b>		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	12/05/2023 12:30	12/06/2023 05:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
123-91-1	1,4-Dioxane	ND	ICVE	ug/kg dry	2200	4400	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
78-93-3	2-Butanone	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
591-78-6	2-Hexanone	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
67-64-1	Acetone	ND		ug/kg dry	220	440	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/kg dry	220	440	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
71-43-2	Benzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-25-2	Bromoform	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
74-83-9	Bromomethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-00-3	Chloroethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
67-66-3	Chloroform	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
74-87-3	Chloromethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>960</b>		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
110-82-7	Cyclohexane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
74-95-3	Dibromomethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
100-41-4	<b>Ethyl Benzene</b>	<b>460</b>		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
79-20-9	Methyl acetate	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
108-87-2	<b>Methylcyclohexane</b>	<b>130</b>	J	ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
75-09-2	Methylene chloride	ND		ug/kg dry	220	440	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
95-47-6	<b>o-Xylene</b>	<b>430</b>		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	12/05/2023 12:30	12/06/2023 05:26	SS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>1800</b>		ug/kg dry	220	440	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	12/05/2023 12:30	12/06/2023 05:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
100-42-5	Styrene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 05:26	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>4500</b>	ICVE, QL-02	ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
108-88-3	<b>Toluene</b>	<b>640</b>		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
79-01-6	<b>Trichloroethylene</b>	<b>7900</b>		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	110	220	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
1330-20-7	<b>Xylenes, Total</b>	<b>2200</b>		ug/kg dry	330	660	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 05:26	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	96.2 %		77-125							
2037-26-5	Surrogate: SURR: Toluene-d8	105 %		85-120							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	109 %		76-130							





### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-





### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
100-02-7	4-Nitrophenol	ND	CCVE	mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
62-53-3	Aniline	ND		mg/kg dry	0.185	0.369	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.369	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
84-74-2	<b>Di-n-butyl phthalate</b>	<b>0.748</b>		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:15	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

York Project (SDG) No.

Client Project ID

Matrix

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Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
85-01-8	<b>Phenanthrene</b>	<b>0.0642</b>	J	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
129-00-0	<b>Pyrene</b>	<b>0.0627</b>	J	mg/kg dry	0.0462	0.0923	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
110-86-1	Pyridine	ND		mg/kg dry	0.185	0.369	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:15	KH-
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	66.8 %			20-108						
13127-88-3	Surrogate: SURR: Phenol-d6	65.5 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	70.6 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	75.0 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	106 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	78.6 %			24-116						

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.123	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0586	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.116	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.198	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
335-67-1	<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.354</b>		ug/kg dry	0.190	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.185	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.209	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.211	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.219	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.180	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.138	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.114	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.164	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.215	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.121	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.162	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.171	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.211	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.658	0.841	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.835	0.850	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.121	0.885	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.154	0.394	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
151772-58-6	* Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	ND		ug/kg dry	0.213	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0686	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.106	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.174	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.658	0.830	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.673	0.885	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.344	0.836	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.272	0.827	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.192	0.836	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.187	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.137	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:19	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPpPA)	ND		ug/kg dry	0.701	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.32	5.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.66	5.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.676	2.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.199	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.771	2.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.219	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:19	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	53.7 %	25-150
Surrogate: M5PFHxA	87.7 %	25-150
Surrogate: M4PFHpA	133 %	25-150
Surrogate: M3PFHxS	146 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	122 %	25-150
Surrogate: M6PFDA	127 %	25-150
Surrogate: M7PFUdA	106 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	103 %	25-150
Surrogate: M2PFTeDA	99.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.21 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	120 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.34 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	82.8 %	10-150
Surrogate: d3-N-MeFOSAA	109 %	25-150
Surrogate: d5-N-EtFOSAA	97.2 %	25-150
Surrogate: M2-6:2 FTS	123 %	25-200



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 8:45 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	179 %			25-200						
	Surrogate: M9PFNA	%			25-150						
	Surrogate: M2-4:2 FTS	84.4 %			25-150						
	Surrogate: d-N-MeFOSA	54.3 %			25-150						
	Surrogate: d-N-EtFOSA	46.8 %			25-150						
	Surrogate: M3HFPO-DA	89.9 %			25-150						
	Surrogate: d9-N-EtFOSE	50.4 %			25-150						
	Surrogate: d7-N-MeFOSE	61.6 %			25-150						

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
72-55-9	4,4'-DDE	0.00205	CCVH	mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 22:50	BCJ
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854	12/06/2023 08:54	12/06/2023 22:50	BCJ
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ





### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

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11/30/2023

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 22:50	BCJ
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 22:50	BCJ
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0359	5	EPA 8081B Certifications:	12/06/2023 08:54	12/06/2023 22:50	BCJ
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>					
2051-24-3	Surrogate: Decachlorobiphenyl	45.6 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	41.4 %			30-150					

**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:50	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:50	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:50	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:50	BCJ
12672-29-6	<b>Aroclor 1248</b>	<b>0.0569</b>	PCB-I	mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:50	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:50	BCJ
11096-82-5	<b>Aroclor 1260</b>	<b>0.0182</b>		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 02:50	BCJ
1336-36-3	* <b>Total PCBs</b>	<b>0.0751</b>		mg/kg dry	0.0181	1	EPA 8082A Certifications:	12/06/2023 08:54	12/07/2023 02:50	BCJ
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>					
877-09-8	Surrogate: Tetrachloro-m-xylene	35.0 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	31.0 %			30-120					

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**





## Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 8:45 am	<u>Date Received</u> 11/30/2023
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Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7890		mg/kg dry	4.65	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-36-0	Antimony	ND		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-38-2	Arsenic	4.04		mg/kg dry	1.40	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-39-3	Barium	141		mg/kg dry	2.32	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-41-7	Beryllium	0.289		mg/kg dry	0.047	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-43-9	Cadmium	18.3		mg/kg dry	0.279	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-70-2	Calcium	58500		mg/kg dry	4.66	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-47-3	Chromium	11.0		mg/kg dry	0.466	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-48-4	Cobalt	4.04		mg/kg dry	0.372	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-50-8	Copper	33.2		mg/kg dry	1.86	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7439-89-6	Iron	15400		mg/kg dry	23.3	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7439-92-1	Lead	19.0		mg/kg dry	0.466	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7439-95-4	Magnesium	37900		mg/kg dry	4.66	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7439-96-5	Manganese	535		mg/kg dry	0.466	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-02-0	Nickel	10.4		mg/kg dry	0.927	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-09-7	Potassium	1440		mg/kg dry	4.66	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7782-49-2	Selenium	ND		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-22-4	Silver	ND		mg/kg dry	0.469	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-23-5	Sodium	684		mg/kg dry	46.6	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-28-0	Thallium	ND		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-62-2	Vanadium	13.7		mg/kg dry	0.927	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG
7440-66-6	Zinc	23.6		mg/kg dry	2.32	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:39	CEG



### Sample Information

**Client Sample ID:** B-02 (6-8 ft)

**York Sample ID:** 23K1837-02

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 8:45 am	<u>Date Received</u> 11/30/2023
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**Mercury by 7473**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
7439-97-6	Mercury	0.0585		mg/kg dry	0.0335	1	EPA 7473	12/07/2023 16:10	12/07/2023 20:47	AGNR	
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04			

**Total Solids**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
solids	* % Solids	89.5		%	0.100	1	SM 2540G	12/04/2023 13:58	12/04/2023 16:31	PMB	
							Certifications:	CTDOH-PH-0723			

### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 9:15 am	<u>Date Received</u> 11/30/2023
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**Volatile Organics, 8260 Comprehensive**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT				
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT				
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT				
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT				
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT				
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT				
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT				
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04				
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005				
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	12/06/2023 09:00	12/06/2023 17:02	SS	
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04				



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
123-91-1	1,4-Dioxane	ND	ICVE	ug/kg dry	48	96	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
67-64-1	Acetone	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
107-02-8	Acrolein	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 17:02	SS
75-09-2	<b>Methylene chloride</b>	<b>7.1</b>	<b>J</b>	ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/06/2023 09:00	12/06/2023 17:02	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/06/2023 09:00	12/06/2023 17:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 17:02	SS



Sample Information

Client Sample ID: B-03 (5-7 ft)

York Sample ID: 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

Volatile Organics, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Styrene, tert-Butyl alcohol (TBA), tert-Butylbenzene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropylene, Trichloroethylene, Trichlorofluoromethane, Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,1-Biphenyl, 1,2,4,5-Tetrachlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine (as Azobenzene), and 1,3-Dichlorobenzene.



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-





### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
100-02-7	4-Nitrophenol	ND	CCVE	mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
62-53-3	Aniline	ND		mg/kg dry	0.196	0.392	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.196	0.392	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0979	0.196	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-





### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 13:45	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
85-01-8	Phenanthrene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0491	0.0979	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
110-86-1	Pyridine	ND		mg/kg dry	0.196	0.392	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 13:45	KH-
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	64.6 %			20-108						
13127-88-3	Surrogate: SURR: Phenol-d6	68.3 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	65.8 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	55.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	97.2 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.4 %			24-116						

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.133	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0633	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.125	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.214	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
335-67-1	<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.387</b>		ug/kg dry	0.206	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.200	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.226	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.228	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.237	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.195	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		ug/kg dry	0.149	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.123	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.177	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.232	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.130	0.478	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.174	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.185	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.228	0.231	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.711	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.902	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.130	0.956	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ug/kg dry	0.166	0.425	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
151772-58-6	* Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ug/kg dry	0.231	0.478	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0741	0.478	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.115	0.478	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.188	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.711	0.896	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.727	0.956	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.372	0.903	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.294	0.894	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.208	0.903	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.202	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.148	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:35	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.758	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.51	5.98	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.79	5.98	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 9:15 am	<u>Date Received</u> 11/30/2023
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**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.730	2.39	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.215	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.833	2.39	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.237	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:35	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	49.1 %	25-150
Surrogate: M5PFHxA	81.4 %	25-150
Surrogate: M4PFHpA	148 %	25-150
Surrogate: M3PFHxS	130 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	112 %	25-150
Surrogate: M6PFDA	127 %	25-150
Surrogate: M7PFUdA	117 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	97.6 %	25-150
Surrogate: M2PFTeDA	75.3 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.21 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	117 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.87 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	100 %	10-150
Surrogate: d3-N-MeFOSAA	86.6 %	25-150
Surrogate: d5-N-EtFOSAA	115 %	25-150
Surrogate: M2-6:2 FTS	121 %	25-200
Surrogate: M2-8:2 FTS	120 %	25-200
Surrogate: M9PFNA	%	25-150
Surrogate: M2-4:2 FTS	84.0 %	25-150
Surrogate: d-N-MeFOSA	60.1 %	25-150
Surrogate: d-N-EtFOSA	55.8 %	25-150
Surrogate: M3HFPO-DA	87.8 %	25-150
Surrogate: d9-N-EtFOSE	24.4 %	25-150
Surrogate: d7-N-MeFOSE	34.1 %	25-150



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
309-00-2	Aldrin	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
319-84-6	alpha-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 23:07	BCJ
319-85-7	beta-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
319-86-8	delta-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
60-57-1	Dieldrin	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
959-98-8	Endosulfan I	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854	12/06/2023 08:54	12/06/2023 23:07	BCJ
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
72-20-8	Endrin	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 23:07	BCJ
76-44-8	Heptachlor	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
72-43-5	Methoxychlor	ND		mg/kg dry	0.00197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
8001-35-2	Toxaphene	ND		mg/kg dry	0.197	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:07	BCJ
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0394	5	EPA 8081B Certifications:	12/06/2023 08:54	12/06/2023 23:07	BCJ
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	67.2 %		30-150						



### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	51.4 %			30-150					

**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:03	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:03	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:03	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:03	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:03	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:03	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:03	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications:	12/06/2023 08:54	12/07/2023 03:03	BCJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

877-09-8	Surrogate: Tetrachloro-m-xylene	50.0 %	30-120
2051-24-3	Surrogate: Decachlorobiphenyl	42.0 %	30-120

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10800		mg/kg dry	4.99	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-36-0	Antimony	ND		mg/kg dry	2.49	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-38-2	Arsenic	5.32		mg/kg dry	1.50	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-39-3	Barium	165		mg/kg dry	2.49	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-41-7	Beryllium	0.352		mg/kg dry	0.050	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-43-9	Cadmium	11.7		mg/kg dry	0.299	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/05/2023 15:25	12/06/2023 13:41	CEG





### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:15 am

11/30/2023

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	4380		mg/kg dry	4.99	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-47-3	Chromium	15.4		mg/kg dry	0.499	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-48-4	Cobalt	6.75		mg/kg dry	0.399	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-50-8	Copper	23.6		mg/kg dry	2.00	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7439-89-6	Iron	21900		mg/kg dry	24.9	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7439-92-1	Lead	23.0		mg/kg dry	0.499	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7439-95-4	Magnesium	6060		mg/kg dry	4.99	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7439-96-5	Manganese	1140		mg/kg dry	0.499	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-02-0	Nickel	16.9		mg/kg dry	0.994	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-09-7	Potassium	1760		mg/kg dry	4.99	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7782-49-2	Selenium	3.47		mg/kg dry	2.49	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-22-4	Silver	ND		mg/kg dry	0.503	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-23-5	Sodium	965		mg/kg dry	49.9	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-28-0	Thallium	ND		mg/kg dry	2.49	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-62-2	Vanadium	18.2		mg/kg dry	0.994	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG
7440-66-6	Zinc	32.1		mg/kg dry	2.48	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:41	CEG

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

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/kg dry	0.0359	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04	12/07/2023 16:10	12/07/2023 20:47	AGNR

**Total Solids**

**Log-in Notes:**

**Sample Notes:**





### Sample Information

**Client Sample ID:** B-03 (5-7 ft)

**York Sample ID:** 23K1837-03

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 9:15 am	<u>Date Received</u> 11/30/2023
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	83.5		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/04/2023 13:58	12/04/2023 16:31	PMB

### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 9:30 am	<u>Date Received</u> 11/30/2023
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### Volatile Organics, 8260 Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	12/05/2023 12:30	12/06/2023 04:33	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
123-91-1	1,4-Dioxane	ND	ICVE	ug/kg dry	49	98	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
67-64-1	<b>Acetone</b>	<b>9.9</b>		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>84</b>		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/06/2023 04:33	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/06/2023 04:33	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:33	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
79-01-6	<b>Trichloroethylene</b>	<b>2.6</b>	J	ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:33	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	97.3 %	77-125								
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	107 %	85-120								
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	110 %	76-130								

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
100-02-7	4-Nitrophenol	ND	CCVE	mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

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Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		mg/kg dry	0.188	0.376	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.188	0.376	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>7.49</b>		mg/kg dry	0.118	0.235	5	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:41	12/06/2023 04:23	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-





### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
117-84-0	<b>Di-n-octyl phthalate</b>	<b>0.847</b>	CAL-E, CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:16	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
85-01-8	Phenanthrene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-
110-86-1	Pyridine	ND		mg/kg dry	0.188	0.376	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:16	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	76.6 %	20-108
13127-88-3	Surrogate: SURR: Phenol-d6	75.0 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	75.6 %	22-108





### Sample Information

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**York Sample ID:** 23K1837-04

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	74.4 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	117 %	S-08		19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	80.0 %			24-116						

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.124	0.197	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0591	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.117	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.199	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.192	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.186	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.211	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.213	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.221	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.182	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		ug/kg dry	0.139	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.115	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.165	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.216	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.121	0.446	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.163	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.173	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.213	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.663	0.847	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.841	0.856	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.121	0.891	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.155	0.397	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
151772-58-6	* Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ug/kg dry	0.215	0.446	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0691	0.446	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.107	0.446	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.175	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.663	0.836	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.678	0.891	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.347	0.842	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.274	0.834	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.194	0.842	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.188	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.138	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 19:51	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPPrPA)	ND		ug/kg dry	0.706	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPpPA)	ND		ug/kg dry	2.34	5.57	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.67	5.57	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.681	2.23	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.201	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.777	2.23	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.221	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 19:51	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS

56.5 %

25-150





### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	86.7 %			25-150						
	Surrogate: M4PFHpA	150 %			25-150						
	Surrogate: M3PFHxS	141 %			25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	105 %			25-150						
	Surrogate: M6PFDA	125 %			25-150						
	Surrogate: M7PFUdA	110 %			25-150						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	106 %			25-150						
	Surrogate: M2PFTeDA	72.0 %			10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.29 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	122 %			25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	7.81 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	90.6 %			10-150						
	Surrogate: d3-N-MeFOSAA	89.3 %			25-150						
	Surrogate: d5-N-EtFOSAA	91.7 %			25-150						
	Surrogate: M2-6:2 FTS	119 %			25-200						
	Surrogate: M2-8:2 FTS	130 %			25-200						
	Surrogate: M9PFNA	%			25-150						
	Surrogate: M2-4:2 FTS	90.2 %			25-150						
	Surrogate: d-N-MeFOSA	66.4 %			25-150						
	Surrogate: d-N-EtFOSA	54.5 %			25-150						
	Surrogate: M3HFPO-DA	87.1 %			25-150						
	Surrogate: d9-N-EtFOSE	31.2 %			25-150						
	Surrogate: d7-N-MeFOSE	46.7 %			25-150						

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
309-00-2	Aldrin	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 23:24	BCJ
319-85-7	beta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
319-86-8	delta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
60-57-1	Dieldrin	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
959-98-8	Endosulfan I	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854	12/06/2023 08:54	12/06/2023 23:24	BCJ
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
72-20-8	Endrin	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/06/2023 23:24	BCJ
76-44-8	Heptachlor	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
72-43-5	Methoxychlor	ND		mg/kg dry	0.00187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
8001-35-2	Toxaphene	ND		mg/kg dry	0.187	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/06/2023 23:24	BCJ
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0373	5	EPA 8081B Certifications:	12/06/2023 08:54	12/06/2023 23:24	BCJ
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	63.1 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	45.6 %		30-150						

**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:17	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:17	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:17	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:17	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:17	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:17	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:17	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications:	12/06/2023 08:54	12/07/2023 03:17	BCJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	46.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	38.5 %	30-120							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>10500</b>		mg/kg dry	4.73	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-36-0	<b>Antimony</b>	<b>4.46</b>		mg/kg dry	2.36	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-38-2	<b>Arsenic</b>	<b>6.68</b>		mg/kg dry	1.42	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-39-3	<b>Barium</b>	<b>431</b>		mg/kg dry	2.36	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-41-7	<b>Beryllium</b>	<b>0.194</b>		mg/kg dry	0.048	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-43-9	<b>Cadmium</b>	<b>9.50</b>		mg/kg dry	0.284	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-70-2	<b>Calcium</b>	<b>751</b>		mg/kg dry	4.73	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-47-3	<b>Chromium</b>	<b>17.3</b>		mg/kg dry	0.473	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG
7440-48-4	<b>Cobalt</b>	<b>9.49</b>		mg/kg dry	0.378	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:44	CEG



### Sample Information

**Client Sample ID:** B-04 (5-7 ft)

**York Sample ID:** 23K1837-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 9:30 am

11/30/2023

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	<b>Copper</b>	<b>27.0</b>		mg/kg dry	1.89	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	<b>Iron</b>	<b>18800</b>		mg/kg dry	23.6	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	<b>Lead</b>	<b>35.8</b>		mg/kg dry	0.473	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	<b>Magnesium</b>	<b>4040</b>		mg/kg dry	4.73	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	<b>Manganese</b>	<b>897</b>		mg/kg dry	0.473	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	<b>Nickel</b>	<b>19.0</b>		mg/kg dry	0.942	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	<b>Potassium</b>	<b>1320</b>		mg/kg dry	4.73	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	<b>Selenium</b>	<b>3.71</b>		mg/kg dry	2.36	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.476	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-23-5	<b>Sodium</b>	<b>637</b>		mg/kg dry	47.3	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.36	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	<b>Vanadium</b>	<b>17.6</b>		mg/kg dry	0.942	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	<b>Zinc</b>	<b>38.8</b>		mg/kg dry	2.35	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:44	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>2.61</b>		mg/kg dry	0.0340	1	EPA 7473	12/07/2023 16:10	12/07/2023 20:47	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>88.2</b>		%	0.100	1	SM 2540G	12/04/2023 13:58	12/04/2023 16:31	PMB
							Certifications:	CTDOH-PH-0723		





### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:59	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	12/05/2023 12:30	12/06/2023 04:59	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:59	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
123-91-1	1,4-Dioxane	ND	ICVE	ug/kg dry	43	86	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:59	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS





Sample Information

Client Sample ID: B-05 (5-7 ft)

York Sample ID: 23K1837-05

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

Volatile Organics, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Acetone, Acrolein, Acrylonitrile, Benzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropylene, Cyclohexane, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Ethyl Benzene, Hexachlorobutadiene, Isopropylbenzene.



### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

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11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:59	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:59	SS
75-09-2	<b>Methylene chloride</b>	<b>14</b>		ug/kg dry	4.3	8.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/06/2023 04:59	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.3	8.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/06/2023 04:59	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
100-42-5	Styrene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/06/2023 04:59	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
108-88-3	Toluene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/06/2023 04:59	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	105 %	85-120



### Sample Information

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	110 %			76-130						

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-



### Sample Information

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
100-02-7	4-Nitrophenol	ND	CCVE	mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
62-53-3	Aniline	ND		mg/kg dry	0.196	0.392	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.196	0.392	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-



### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>0.0752</b>	J	mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0980	0.196	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:41	12/05/2023 14:46	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-



### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

York Project (SDG) No.

Client Project ID

Matrix

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
85-01-8	Phenanthrene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0491	0.0980	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-
110-86-1	Pyridine	ND		mg/kg dry	0.196	0.392	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:41	12/05/2023 14:46	KH-

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	65.5 %			20-108
13127-88-3	Surrogate: SURR: Phenol-d6	68.1 %			23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	62.4 %			22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	57.4 %			21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	114 %	S-08		19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	73.0 %			24-116

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.132	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0629	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.125	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ





### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

York Project (SDG) No.

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.212	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.204	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.198	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
375-95-1	<b>Perfluorononanoic acid (PFNA)</b>	<b>1.04</b>		ug/kg dry	0.224	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.227	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.235	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.193	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.148	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.122	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.176	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.230	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.129	0.475	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.173	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.184	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.227	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.706	0.902	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.896	0.911	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.129	0.949	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.165	0.422	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
151772-58-6	* Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ug/kg dry	0.229	0.475	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0736	0.475	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.114	0.475	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.186	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ





### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

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23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.706	0.890	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.721	0.949	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.369	0.897	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.292	0.888	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.206	0.897	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.201	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.147	0.228	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 20:07	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.752	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.49	5.93	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.78	5.93	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.725	2.37	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.214	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.827	2.37	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.235	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 20:07	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	58.6 %	25-150
Surrogate: M5PFHxA	92.9 %	25-150
Surrogate: M4PFHpA	147 %	25-150
Surrogate: M3PFHxS	125 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	94.4 %	25-150
Surrogate: M6PFDA	67.0 %	25-150
Surrogate: M7PFUdA	53.3 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	43.3 %	25-150
Surrogate: M2PFTeDA	47.4 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.30 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	54.2 %	25-150



### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	7.92 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	49.1 %			10-150						
	Surrogate: d3-N-MeFOSAA	30.5 %			25-150						
	Surrogate: d5-N-EtFOSAA	35.4 %			25-150						
	Surrogate: M2-6:2 FTS	97.3 %			25-200						
	Surrogate: M2-8:2 FTS	57.0 %			25-200						
	Surrogate: M9PFNA	%			25-150						
	Surrogate: M2-4:2 FTS	100 %			25-150						
	Surrogate: d-N-MeFOSA	29.4 %			25-150						
	Surrogate: d-N-EtFOSA	25.7 %			25-150						
	Surrogate: M3HFPO-DA	93.0 %			25-150						
	Surrogate: d9-N-EtFOSE	23.2 %			25-150						
	Surrogate: d7-N-MeFOSE	34.4 %			25-150						

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
309-00-2	Aldrin	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
319-84-6	alpha-BHC	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/07/2023 00:30	BCJ
319-85-7	beta-BHC	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
319-86-8	delta-BHC	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
60-57-1	Dieldrin	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
959-98-8	Endosulfan I	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854	12/06/2023 08:54	12/07/2023 00:30	BCJ
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ



### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**Pesticides, 8081 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	12/06/2023 08:54	12/07/2023 00:30	BCJ
76-44-8	Heptachlor	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
72-43-5	Methoxychlor	ND		mg/kg dry	0.00195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
8001-35-2	Toxaphene	ND		mg/kg dry	0.195	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 00:30	BCJ
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0390	5	EPA 8081B Certifications:	12/06/2023 08:54	12/07/2023 00:30	BCJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	83.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	62.6 %	30-150							

**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:31	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:31	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:31	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:31	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:31	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:31	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/06/2023 08:54	12/07/2023 03:31	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	12/06/2023 08:54	12/07/2023 03:31	BCJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							



### Sample Information

**Client Sample ID:** B-05 (5-7 ft)

**York Sample ID:** 23K1837-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 10:00 am

11/30/2023

**PCB (Polychlorinated Biphenyls)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	59.5 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	51.0 %			30-120					

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>14700</b>		mg/kg dry	4.94	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	<b>Antimony</b>	<b>34.5</b>		mg/kg dry	2.47	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-38-2	<b>Arsenic</b>	<b>5.94</b>		mg/kg dry	1.48	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	<b>Barium</b>	<b>50.3</b>		mg/kg dry	2.47	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	<b>Beryllium</b>	<b>0.264</b>		mg/kg dry	0.050	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	<b>Cadmium</b>	<b>0.778</b>		mg/kg dry	0.297	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	<b>Calcium</b>	<b>13700</b>		mg/kg dry	4.94	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	<b>Chromium</b>	<b>20.8</b>		mg/kg dry	0.495	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	<b>Cobalt</b>	<b>9.50</b>		mg/kg dry	0.395	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	<b>Copper</b>	<b>23.4</b>		mg/kg dry	1.98	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	<b>Iron</b>	<b>21100</b>		mg/kg dry	24.7	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	<b>Lead</b>	<b>15.9</b>		mg/kg dry	0.495	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	<b>Magnesium</b>	<b>11900</b>		mg/kg dry	4.95	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	<b>Manganese</b>	<b>458</b>		mg/kg dry	0.495	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	<b>Nickel</b>	<b>18.9</b>		mg/kg dry	0.985	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	<b>Potassium</b>	<b>1200</b>		mg/kg dry	4.95	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.47	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.498	1	EPA 6010D	12/05/2023 15:25	12/06/2023 13:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		



### Sample Information

**Client Sample ID:** B-05 (5-7 ft) **York Sample ID:** 23K1837-05  
**York Project (SDG) No.:** 23K1837 **Client Project ID:** 2222335 IV5-Brookfield Newburgh **Matrix:** Soil **Collection Date/Time:** November 29, 2023 10:00 am **Date Received:** 11/30/2023

#### Metals, Target Analyte

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	794		mg/kg dry	49.4	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:46	CEG
7440-28-0	Thallium	ND		mg/kg dry	2.47	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:46	CEG
7440-62-2	Vanadium	21.4		mg/kg dry	0.985	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:46	CEG
7440-66-6	Zinc	46.7		mg/kg dry	2.46	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:46	CEG

#### Mercury by 7473

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.549		mg/kg dry	0.0356	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04	12/07/2023 16:10	12/07/2023 20:47	AGNR

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.3		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/05/2023 08:13	12/05/2023 15:30	sgs

### Sample Information

**Client Sample ID:** IV5\_B\_FB **York Sample ID:** 23K1837-06  
**York Project (SDG) No.:** 23K1837 **Client Project ID:** 2222335 IV5-Brookfield Newburgh **Matrix:** Water **Collection Date/Time:** November 29, 2023 12:30 pm **Date Received:** 11/30/2023

#### PFAS, EPA 1633 Target List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.465	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.346	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.702	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ



### Sample Information

**Client Sample ID:** IV5\_B\_FB

**York Sample ID:** 23K1837-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 12:30 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.673	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.415	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.811	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.514	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.742	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.12	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.870	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.732	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.682	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.781	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.02	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.227	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.870	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.900	1.89	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.31	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.05	7.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.03	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.326	7.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.495	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:18	ESJ
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ng/L	2.12	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:18	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.247	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:18	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.366	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:18	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.752	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ



### Sample Information

**Client Sample ID:** IV5\_B\_FB

**York Sample ID:** 23K1837-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 12:30 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.77	7.42	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.19	7.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.36	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.692	7.40	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
919005-14-4	ADONA	ND		ng/L	0.524	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.920	1.92	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.851	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:18	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.01	4.95	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.25	24.7	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.37	24.7	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.95	19.8	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.56	1.98	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.95	19.8	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.78	1.98	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:18	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	99.5 %	25-150
Surrogate: M5PFHxA	119 %	25-150
Surrogate: M4PFHpA	187 %	25-150
Surrogate: M3PFHxS	185 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	137 %	25-150
Surrogate: M6PFDA	183 %	25-150
Surrogate: M7PFUdA	171 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	126 %	25-150
Surrogate: M2PFTeDA	78.1 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.807 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	146 %	25-150





### Sample Information

**Client Sample ID:** IV5\_B\_FB

**York Sample ID:** 23K1837-06

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 29, 2023 12:30 pm	<u>Date Received</u> 11/30/2023
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**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	12.3 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	120 %			10-150						
	Surrogate: d3-N-MeFOSAA	151 %			25-150						
	Surrogate: d5-N-EtFOSAA	110 %			25-150						
	Surrogate: M2-6:2 FTS	140 %			25-200						
	Surrogate: M2-8:2 FTS	170 %			25-200						
	Surrogate: M9PFNA	%			25-150						
	Surrogate: M2-4:2 FTS	117 %			25-150						
	Surrogate: d-N-MeFOSA	105 %			25-150						
	Surrogate: d-N-EtFOSA	119 %			25-150						
	Surrogate: M3HFPO-DA	128 %			25-150						
	Surrogate: d9-N-EtFOSE	63.9 %			25-150						
	Surrogate: d7-N-MeFOSE	77.0 %			25-150						

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1837-07

<u>York Project (SDG) No.</u> 23K1837	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 29, 2023 1:00 pm	<u>Date Received</u> 11/30/2023
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**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	0.216	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1837-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

**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
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	ug/L	35.3	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
78-93-3	2-Butanone	ND	QL-02	ug/L	0.421	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
67-64-1	Acetone	ND	ICVE	ug/L	1.34	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1837-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

**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
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 09:00	12/05/2023 12:10	SMA



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1837-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1837

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

**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	0.578	1.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 09:00	12/05/2023 12:10	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 09:00	12/05/2023 12:10	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02, CCVE	ug/L	0.239	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 09:00	12/05/2023 12:10	SMA
	<b>Surrogate Recoveries</b>	<b>Result</b>						<b>Acceptance Range</b>			
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %						70-130			
2037-26-5	Surrogate: SURRE: Toluene-d8	96.5 %						70-130			
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	94.6 %						70-130			



## Analytical Batch Summary

**Batch ID:** BL30041      **Preparation Method:** EPA 1633 Prep      **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-01	B-01 (4-6 ft)	12/01/23
23K1837-02	B-02 (6-8 ft)	12/01/23
23K1837-03	B-03 (5-7 ft)	12/01/23
23K1837-04	B-04 (5-7 ft)	12/01/23
23K1837-05	B-05 (5-7 ft)	12/01/23
BL30041-BLK1	Blank	12/01/23
BL30041-BS1	LCS	12/01/23
BL30041-BS2	LCS	12/01/23
BL30041-MS1	Matrix Spike	12/01/23
BL30041-MSD1	Matrix Spike Dup	12/01/23

**Batch ID:** BL30044      **Preparation Method:** EPA 1633 Prep      **Prepared By:** AM

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-06	IV5_B_FB	12/01/23
BL30044-BLK1	Blank	12/01/23
BL30044-BS1	LCS	12/01/23
BL30044-BS2	LCS	12/01/23
BL30044-DUP1	Duplicate	12/01/23

**Batch ID:** BL30090      **Preparation Method:** EPA 3550C      **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-01	B-01 (4-6 ft)	12/03/23
23K1837-01RE1	B-01 (4-6 ft)	12/03/23
23K1837-02	B-02 (6-8 ft)	12/03/23
23K1837-03	B-03 (5-7 ft)	12/03/23
23K1837-04	B-04 (5-7 ft)	12/03/23
23K1837-04RE1	B-04 (5-7 ft)	12/03/23
23K1837-05	B-05 (5-7 ft)	12/03/23
BL30090-BLK1	Blank	12/03/23
BL30090-BS1	LCS	12/03/23
BL30090-MS1	Matrix Spike	12/03/23
BL30090-MSD1	Matrix Spike Dup	12/03/23

**Batch ID:** BL30170      **Preparation Method:** % Solids Prep      **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-01	B-01 (4-6 ft)	12/04/23
23K1837-02	B-02 (6-8 ft)	12/04/23
23K1837-03	B-03 (5-7 ft)	12/04/23
23K1837-04	B-04 (5-7 ft)	12/04/23
BL30170-DUP1	Duplicate	12/04/23



**Batch ID:** BL30213                      **Preparation Method:** % Solids Prep                      **Prepared By:** sgs

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-05	B-05 (5-7 ft)	12/05/23
BL30213-DUP1	Duplicate	12/05/23

**Batch ID:** BL30234                      **Preparation Method:** EPA 5030B                      **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-07	Trip Blank	12/05/23
BL30234-BLK1	Blank	12/05/23
BL30234-BS1	LCS	12/05/23
BL30234-BSD1	LCS Dup	12/05/23

**Batch ID:** BL30237                      **Preparation Method:** EPA 5035A                      **Prepared By:** FTR

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-01	B-01 (4-6 ft)	12/05/23
23K1837-02	B-02 (6-8 ft)	12/05/23
23K1837-04	B-04 (5-7 ft)	12/05/23
23K1837-05	B-05 (5-7 ft)	12/05/23
BL30237-BLK1	Blank	12/05/23
BL30237-BLK2	Blank	12/05/23
BL30237-BS1	LCS	12/05/23
BL30237-BSD1	LCS Dup	12/05/23

**Batch ID:** BL30267                      **Preparation Method:** EPA 3050B                      **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-01	B-01 (4-6 ft)	12/05/23
23K1837-02	B-02 (6-8 ft)	12/05/23
23K1837-03	B-03 (5-7 ft)	12/05/23
23K1837-04	B-04 (5-7 ft)	12/05/23
23K1837-05	B-05 (5-7 ft)	12/05/23
BL30267-BLK1	Blank	12/05/23
BL30267-DUP1	Duplicate	12/05/23
BL30267-MS1	Matrix Spike	12/05/23
BL30267-PS1	Post Spike	12/05/23
BL30267-SRM1	Reference	12/05/23

**Batch ID:** BL30289                      **Preparation Method:** EPA 3550C                      **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-01	B-01 (4-6 ft)	12/06/23
23K1837-01	B-01 (4-6 ft)	12/06/23
23K1837-02	B-02 (6-8 ft)	12/06/23
23K1837-02	B-02 (6-8 ft)	12/06/23



23K1837-03	B-03 (5-7 ft)	12/06/23
23K1837-03	B-03 (5-7 ft)	12/06/23
23K1837-04	B-04 (5-7 ft)	12/06/23
23K1837-04	B-04 (5-7 ft)	12/06/23
23K1837-05	B-05 (5-7 ft)	12/06/23
23K1837-05	B-05 (5-7 ft)	12/06/23
BL30289-BLK1	Blank	12/06/23
BL30289-BLK2	Blank	12/06/23
BL30289-BLK2	Blank	12/06/23
BL30289-BS1	LCS	12/06/23
BL30289-BS2	LCS	12/06/23
BL30289-BS2	LCS	12/06/23
BL30289-MS1	Matrix Spike	12/06/23
BL30289-MS2	Matrix Spike	12/06/23
BL30289-MS2	Matrix Spike	12/06/23
BL30289-MSD1	Matrix Spike Dup	12/06/23
BL30289-MSD2	Matrix Spike Dup	12/06/23
BL30289-MSD2	Matrix Spike Dup	12/06/23

**Batch ID:** BL30316                      **Preparation Method:** EPA 5035A                      **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-03	B-03 (5-7 ft)	12/06/23
BL30316-BLK1	Blank	12/06/23
BL30316-BLK2	Blank	12/06/23
BL30316-BS1	LCS	12/06/23
BL30316-BSD1	LCS Dup	12/06/23

**Batch ID:** BL30481                      **Preparation Method:** EPA 7473 soil                      **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K1837-01	B-01 (4-6 ft)	12/07/23
23K1837-02	B-02 (6-8 ft)	12/07/23
23K1837-03	B-03 (5-7 ft)	12/07/23
23K1837-04	B-04 (5-7 ft)	12/07/23
23K1837-05	B-05 (5-7 ft)	12/07/23
BL30481-BLK1	Blank	12/07/23
BL30481-DUP1	Duplicate	12/07/23
BL30481-MS1	Matrix Spike	12/07/23
BL30481-SRM1	Reference	12/07/23





**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
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**Batch BL30234 - EPA 5030B**

**Blank (BL30234-BLK1)**

Prepared & Analyzed: 12/05/2023

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	"								
1,4-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
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**Batch BL30234 - EPA 5030B**

**Blank (BL30234-BLK1)**

Prepared & Analyzed: 12/05/2023

Methylene chloride	ND	2.00	ug/L								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
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	"								
<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	<i>10.9</i>		<i>"</i>	<i>10.0</i>		<i>109</i>	<i>70-130</i>				
<i>Surrogate: SURRE: Toluene-d8</i>	<i>9.58</i>		<i>"</i>	<i>10.0</i>		<i>95.8</i>	<i>70-130</i>				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	<i>9.30</i>		<i>"</i>	<i>10.0</i>		<i>93.0</i>	<i>70-130</i>				

**LCS (BL30234-BS1)**

Prepared & Analyzed: 12/05/2023

1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0		106	82-126				30
1,1,1-Trichloroethane	10.9		"	10.0		109	70-130				20
1,1,2,2-Tetrachloroethane	11.2		"	10.0		112	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.2		"	10.0		122	70-130				20
1,1,2-Trichloroethane	10.6		"	10.0		106	70-130				20
1,1-Dichloroethane	10.6		"	10.0		106	70-130				20
1,1-Dichloroethylene	11.7		"	10.0		117	70-130				20
1,2,3-Trichlorobenzene	10.8		"	10.0		108	70-130				20
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128				30
1,2,4-Trichlorobenzene	11.2		"	10.0		112	70-130				20
1,2,4-Trimethylbenzene	10.4		"	10.0		104	82-132				20
1,2-Dibromo-3-chloropropane	9.89		"	10.0		98.9	40-160				20
1,2-Dibromoethane	10.9		"	10.0		109	70-130				20
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130				20
1,2-Dichloroethane	11.4		"	10.0		114	70-130				20
1,2-Dichloropropane	10.3		"	10.0		103	70-130				20
1,3,5-Trimethylbenzene	10.4		"	10.0		104	80-131				30
1,3-Dichlorobenzene	10.3		"	10.0		103	70-130				20
1,4-Dichlorobenzene	10.2		"	10.0		102	70-130				20
1,4-Dioxane	51.3		"	210		24.4	40-160	Low Bias			20
2-Butanone	3.35		"	10.0		33.5	40-160	Low Bias			20
2-Hexanone	9.54		"	10.0		95.4	40-160				20
4-Methyl-2-pentanone	10.2		"	10.0		102	40-160				20
Acetone	6.74		"	10.0		67.4	40-160				20
Acrolein	13.5		"	10.0		135	10-153				30
Acrylonitrile	11.8		"	10.0		118	51-150				30
Benzene	11.2		"	10.0		112	70-130				20



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
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Batch BL30234 - EPA 5030B

LCS (BL30234-BS1)

Prepared & Analyzed: 12/05/2023

Bromochloromethane	11.0		ug/L	10.0		110	70-130				20
Bromodichloromethane	10.5		"	10.0		105	70-130				20
Bromoform	10.9		"	10.0		109	70-130				20
Bromomethane	16.5		"	10.0		165	40-160	High Bias			20
Carbon disulfide	12.1		"	10.0		121	40-160				20
Carbon tetrachloride	11.1		"	10.0		111	70-130				20
Chlorobenzene	10.4		"	10.0		104	70-130				20
Chloroethane	11.7		"	10.0		117	40-160				20
Chloroform	10.6		"	10.0		106	70-130				20
Chloromethane	15.0		"	10.0		150	40-160				20
cis-1,2-Dichloroethylene	10.8		"	10.0		108	70-130				20
cis-1,3-Dichloropropylene	10.1		"	10.0		101	70-130				20
Cyclohexane	10.9		"	10.0		109	70-130				20
Dibromochloromethane	10.8		"	10.0		108	70-130				20
Dibromomethane	10.4		"	10.0		104	72-134				30
Dichlorodifluoromethane	16.7		"	10.0		167	40-160	High Bias			20
Ethyl Benzene	10.5		"	10.0		105	70-130				20
Hexachlorobutadiene	11.3		"	10.0		113	67-146				30
Isopropylbenzene	9.89		"	10.0		98.9	70-130				20
Methyl acetate	10.8		"	10.0		108	70-130				20
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	70-130				20
Methylcyclohexane	10.5		"	10.0		105	70-130				20
Methylene chloride	10.6		"	10.0		106	70-130				20
n-Butylbenzene	10.8		"	10.0		108	79-132				30
n-Propylbenzene	10.1		"	10.0		101	78-133				30
o-Xylene	10.3		"	10.0		103	70-130				20
p- & m- Xylenes	21.2		"	20.0		106	70-130				20
p-Isopropyltoluene	10.6		"	10.0		106	81-136				30
sec-Butylbenzene	10.4		"	10.0		104	79-137				30
Styrene	10.7		"	10.0		107	70-130				20
tert-Butyl alcohol (TBA)	69.2		"	50.0		138	25-162				30
tert-Butylbenzene	10.1		"	10.0		101	77-138				30
Tetrachloroethylene	5.95		"	10.0		59.5	70-130	Low Bias			20
Toluene	10.5		"	10.0		105	70-130				20
trans-1,2-Dichloroethylene	10.8		"	10.0		108	70-130				20
trans-1,3-Dichloropropylene	10.4		"	10.0		104	70-130				20
Trichloroethylene	9.78		"	10.0		97.8	70-130				20
Trichlorofluoromethane	12.2		"	10.0		122	40-160				20
Vinyl Chloride	12.6		"	10.0		126	70-130				20
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.4		"	10.0		104	70-130				
Surrogate: SURRE: Toluene-d8	9.65		"	10.0		96.5	70-130				
Surrogate: SURRE: p-Bromofluorobenzene	9.61		"	10.0		96.1	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
<b>Batch BL30234 - EPA 5030B</b>											
<b>LCS Dup (BL30234-BSD1)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0		106	82-126		0.0941	30	
1,1,1-Trichloroethane	10.6		"	10.0		106	70-130		2.14	20	
1,1,2,2-Tetrachloroethane	11.9		"	10.0		119	70-130		6.07	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8		"	10.0		118	70-130		2.91	20	
1,1,2-Trichloroethane	11.0		"	10.0		110	70-130		4.44	20	
1,1-Dichloroethane	10.5		"	10.0		105	70-130		0.475	20	
1,1-Dichloroethylene	11.3		"	10.0		113	70-130		3.49	20	
1,2,3-Trichlorobenzene	12.0		"	10.0		120	70-130		10.6	20	
1,2,3-Trichloropropane	10.9		"	10.0		109	77-128		5.64	30	
1,2,4-Trichlorobenzene	11.7		"	10.0		117	70-130		4.81	20	
1,2,4-Trimethylbenzene	10.2		"	10.0		102	82-132		1.84	20	
1,2-Dibromo-3-chloropropane	11.2		"	10.0		112	40-160		12.2	20	
1,2-Dibromoethane	11.3		"	10.0		113	70-130		3.52	20	
1,2-Dichlorobenzene	10.6		"	10.0		106	70-130		2.29	20	
1,2-Dichloroethane	11.9		"	10.0		119	70-130		4.28	20	
1,2-Dichloropropane	10.3		"	10.0		103	70-130		0.0973	20	
1,3,5-Trimethylbenzene	10.1		"	10.0		101	80-131		2.82	30	
1,3-Dichlorobenzene	10.2		"	10.0		102	70-130		0.878	20	
1,4-Dichlorobenzene	10.2		"	10.0		102	70-130		0.0982	20	
1,4-Dioxane	69.2		"	210		32.9	40-160	Low Bias	29.6	20	Non-dir.
2-Butanone	11.1		"	10.0		111	40-160		107	20	Non-dir.
2-Hexanone	10.6		"	10.0		106	40-160		10.1	20	
4-Methyl-2-pentanone	11.0		"	10.0		110	40-160		7.74	20	
Acetone	6.95		"	10.0		69.5	40-160		3.07	20	
Acrolein	15.2		"	10.0		152	10-153		11.7	30	
Acrylonitrile	12.2		"	10.0		122	51-150		3.17	30	
Benzene	11.1		"	10.0		111	70-130		0.810	20	
Bromochloromethane	11.1		"	10.0		111	70-130		1.27	20	
Bromodichloromethane	10.5		"	10.0		105	70-130		0.0955	20	
Bromoform	11.4		"	10.0		114	70-130		5.20	20	
Bromomethane	16.2		"	10.0		162	40-160	High Bias	1.59	20	
Carbon disulfide	11.6		"	10.0		116	40-160		3.71	20	
Carbon tetrachloride	10.8		"	10.0		108	70-130		2.37	20	
Chlorobenzene	10.4		"	10.0		104	70-130		0.768	20	
Chloroethane	11.4		"	10.0		114	40-160		2.52	20	
Chloroform	10.6		"	10.0		106	70-130		0.0944	20	
Chloromethane	14.5		"	10.0		145	40-160		3.12	20	
cis-1,2-Dichloroethylene	10.9		"	10.0		109	70-130		0.368	20	
cis-1,3-Dichloropropylene	10.1		"	10.0		101	70-130		0.0991	20	
Cyclohexane	10.7		"	10.0		107	70-130		1.39	20	
Dibromochloromethane	11.3		"	10.0		113	70-130		4.17	20	
Dibromomethane	10.8		"	10.0		108	72-134		3.02	30	
Dichlorodifluoromethane	15.7		"	10.0		157	40-160		6.37	20	
Ethyl Benzene	10.3		"	10.0		103	70-130		1.93	20	
Hexachlorobutadiene	11.0		"	10.0		110	67-146		3.41	30	
Isopropylbenzene	9.57		"	10.0		95.7	70-130		3.29	20	
Methyl acetate	11.8		"	10.0		118	70-130		8.30	20	
Methyl tert-butyl ether (MTBE)	11.9		"	10.0		119	70-130		6.49	20	
Methylcyclohexane	10.1		"	10.0		101	70-130		3.68	20	
Methylene chloride	10.7		"	10.0		107	70-130		0.375	20	



**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
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**Batch BL30234 - EPA 5030B**

**LCS Dup (BL30234-BSD1)**

Prepared & Analyzed: 12/05/2023

n-Butylbenzene	10.6		ug/L	10.0		106	79-132		2.43	30	
n-Propylbenzene	9.70		"	10.0		97.0	78-133		4.04	30	
o-Xylene	10.2		"	10.0		102	70-130		0.681	20	
p- & m- Xylenes	20.7		"	20.0		104	70-130		2.20	20	
p-Isopropyltoluene	10.4		"	10.0		104	81-136		2.38	30	
sec-Butylbenzene	10.0		"	10.0		100	79-137		3.34	30	
Styrene	10.7		"	10.0		107	70-130		0.374	20	
tert-Butyl alcohol (TBA)	75.7		"	50.0		151	25-162		8.89	30	
tert-Butylbenzene	9.76		"	10.0		97.6	77-138		3.42	30	
Tetrachloroethylene	5.76		"	10.0		57.6	70-130	Low Bias	3.25	20	
Toluene	10.2		"	10.0		102	70-130		2.71	20	
trans-1,2-Dichloroethylene	10.6		"	10.0		106	70-130		1.12	20	
trans-1,3-Dichloropropylene	10.7		"	10.0		107	70-130		2.75	20	
Trichloroethylene	9.48		"	10.0		94.8	70-130		3.12	20	
Trichlorofluoromethane	11.8		"	10.0		118	40-160		2.91	20	
Vinyl Chloride	12.0		"	10.0		120	70-130		4.87	20	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.57</i>		<i>"</i>	<i>10.0</i>		<i>95.7</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.43</i>		<i>"</i>	<i>10.0</i>		<i>94.3</i>	<i>70-130</i>				

**Batch BL30237 - EPA 5035A**

**Blank (BL30237-BLK1)**

Prepared & Analyzed: 12/05/2023

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL30237 - EPA 5035A**

**Blank (BL30237-BLK1)**

Prepared & Analyzed: 12/05/2023

Bromodichloromethane	ND	5.0	ug/kg wet										
Bromoform	ND	5.0	"										
Bromomethane	ND	5.0	"										
Carbon disulfide	ND	5.0	"										
Carbon tetrachloride	ND	5.0	"										
Chlorobenzene	ND	5.0	"										
Chloroethane	ND	5.0	"										
Chloroform	ND	5.0	"										
Chloromethane	ND	5.0	"										
cis-1,2-Dichloroethylene	ND	5.0	"										
cis-1,3-Dichloropropylene	ND	5.0	"										
Cyclohexane	ND	5.0	"										
Dibromochloromethane	ND	5.0	"										
Dibromomethane	ND	5.0	"										
Dichlorodifluoromethane	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Hexachlorobutadiene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl acetate	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylcyclohexane	ND	5.0	"										
Methylene chloride	ND	10	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
p-Isopropyltoluene	ND	5.0	"										
sec-Butylbenzene	ND	5.0	"										
Styrene	ND	5.0	"										
tert-Butyl alcohol (TBA)	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
Tetrachloroethylene	ND	5.0	"										
Toluene	ND	5.0	"										
trans-1,2-Dichloroethylene	ND	5.0	"										
trans-1,3-Dichloropropylene	ND	5.0	"										
Trichloroethylene	ND	5.0	"										
Trichlorofluoromethane	ND	5.0	"										
Vinyl Chloride	ND	5.0	"										
Xylenes, Total	ND	15	"										

Surrogate: SURRE: 1,2-Dichloroethane-d4	50.0		ug/L	50.0	99.9	77-125
Surrogate: SURRE: Toluene-d8	53.1		"	50.0	106	85-120
Surrogate: SURRE: p-Bromofluorobenzene	55.6		"	50.0	111	76-130



**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
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**Batch BL30237 - EPA 5035A**

**Blank (BL30237-BLK2)**

Prepared & Analyzed: 12/05/2023

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet								
1,1,1-Trichloroethane	ND	500	"								
1,1,2,2-Tetrachloroethane	ND	500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"								
1,1,2-Trichloroethane	ND	500	"								
1,1-Dichloroethane	ND	500	"								
1,1-Dichloroethylene	ND	500	"								
1,2,3-Trichlorobenzene	ND	500	"								
1,2,3-Trichloropropane	ND	500	"								
1,2,4-Trichlorobenzene	ND	500	"								
1,2,4-Trimethylbenzene	ND	500	"								
1,2-Dibromo-3-chloropropane	ND	500	"								
1,2-Dibromoethane	ND	500	"								
1,2-Dichlorobenzene	ND	500	"								
1,2-Dichloroethane	ND	500	"								
1,2-Dichloropropane	ND	500	"								
1,3,5-Trimethylbenzene	ND	500	"								
1,3-Dichlorobenzene	ND	500	"								
1,4-Dichlorobenzene	ND	500	"								
1,4-Dioxane	ND	10000	"								
2-Butanone	ND	500	"								
2-Hexanone	ND	500	"								
4-Methyl-2-pentanone	ND	500	"								
Acetone	ND	1000	"								
Acrolein	ND	1000	"								
Acrylonitrile	ND	500	"								
Benzene	ND	500	"								
Bromochloromethane	ND	500	"								
Bromodichloromethane	ND	500	"								
Bromoform	ND	500	"								
Bromomethane	ND	500	"								
Carbon disulfide	ND	500	"								
Carbon tetrachloride	ND	500	"								
Chlorobenzene	ND	500	"								
Chloroethane	ND	500	"								
Chloroform	ND	500	"								
Chloromethane	ND	500	"								
cis-1,2-Dichloroethylene	ND	500	"								
cis-1,3-Dichloropropylene	ND	500	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	ND	1000	"								





**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
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**Batch BL30237 - EPA 5035A**

**Blank (BL30237-BLK2)**

Prepared & Analyzed: 12/05/2023

n-Butylbenzene	ND	500	ug/kg wet								
n-Propylbenzene	ND	500	"								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	50.1		ug/L	50.0		100	77-125				
Surrogate: SURRE: Toluene-d8	52.5		"	50.0		105	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	55.7		"	50.0		111	76-130				

**LCS (BL30237-BS1)**

Prepared & Analyzed: 12/05/2023

1,1,1,2-Tetrachloroethane	51.2		ug/L	50.0		102	75-129				
1,1,1-Trichloroethane	46.2		"	50.0		92.3	71-137				
1,1,2,2-Tetrachloroethane	60.0		"	50.0		120	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.0		"	50.0		92.1	58-146				
1,1,2-Trichloroethane	51.2		"	50.0		102	83-123				
1,1-Dichloroethane	45.8		"	50.0		91.7	75-130				
1,1-Dichloroethylene	48.6		"	50.0		97.2	64-137				
1,2,3-Trichlorobenzene	50.4		"	50.0		101	81-140				
1,2,3-Trichloropropane	52.3		"	50.0		105	81-126				
1,2,4-Trichlorobenzene	50.3		"	50.0		101	80-141				
1,2,4-Trimethylbenzene	58.3		"	50.0		117	84-125				
1,2-Dibromo-3-chloropropane	56.6		"	50.0		113	74-142				
1,2-Dibromoethane	52.3		"	50.0		105	86-123				
1,2-Dichlorobenzene	53.6		"	50.0		107	85-122				
1,2-Dichloroethane	48.2		"	50.0		96.4	71-133				
1,2-Dichloropropane	53.7		"	50.0		107	81-122				
1,3,5-Trimethylbenzene	58.5		"	50.0		117	82-126				
1,3-Dichlorobenzene	52.9		"	50.0		106	84-124				
1,4-Dichlorobenzene	51.8		"	50.0		104	84-124				
1,4-Dioxane	481		"	1050		45.8	10-228				
2-Butanone	42.4		"	50.0		84.8	58-147				
2-Hexanone	51.3		"	50.0		103	70-139				
4-Methyl-2-pentanone	51.8		"	50.0		104	72-132				
Acetone	33.9		"	50.0		67.8	36-155				
Acrolein	45.0		"	50.0		90.1	10-238				
Acrylonitrile	46.2		"	50.0		92.4	66-141				
Benzene	48.1		"	50.0		96.2	77-127				
Bromochloromethane	46.3		"	50.0		92.6	74-129				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	

**Batch BL30237 - EPA 5035A**

**LCS (BL30237-BS1)**

Prepared & Analyzed: 12/05/2023

Bromodichloromethane	52.2		ug/L	50.0		104	81-124				
Bromoform	48.1		"	50.0		96.1	80-136				
Bromomethane	53.7		"	50.0		107	32-177				
Carbon disulfide	48.3		"	50.0		96.6	10-136				
Carbon tetrachloride	46.8		"	50.0		93.6	66-143				
Chlorobenzene	52.1		"	50.0		104	86-120				
Chloroethane	53.0		"	50.0		106	51-142				
Chloroform	46.3		"	50.0		92.5	76-131				
Chloromethane	51.0		"	50.0		102	49-132				
cis-1,2-Dichloroethylene	47.5		"	50.0		95.0	74-132				
cis-1,3-Dichloropropylene	51.7		"	50.0		103	81-129				
Cyclohexane	45.5		"	50.0		91.0	70-130				
Dibromochloromethane	50.8		"	50.0		102	10-200				
Dibromomethane	50.8		"	50.0		102	83-124				
Dichlorodifluoromethane	49.1		"	50.0		98.2	28-158				
Ethyl Benzene	54.2		"	50.0		108	84-125				
Hexachlorobutadiene	50.4		"	50.0		101	83-133				
Isopropylbenzene	58.0		"	50.0		116	81-127				
Methyl acetate	41.6		"	50.0		83.2	41-143				
Methyl tert-butyl ether (MTBE)	43.3		"	50.0		86.5	74-131				
Methylcyclohexane	50.9		"	50.0		102	70-130				
Methylene chloride	59.7		"	50.0		119	57-141				
n-Butylbenzene	58.8		"	50.0		118	80-130				
n-Propylbenzene	57.8		"	50.0		116	74-136				
o-Xylene	53.0		"	50.0		106	83-123				
p- & m- Xylenes	106		"	100		106	82-128				
p-Isopropyltoluene	56.8		"	50.0		114	85-125				
sec-Butylbenzene	57.2		"	50.0		114	83-125				
Styrene	53.9		"	50.0		108	86-126				
tert-Butyl alcohol (TBA)	218		"	250		87.4	70-130				
tert-Butylbenzene	55.3		"	50.0		111	80-127				
Tetrachloroethylene	33.4		"	50.0		66.9	80-129	Low Bias			
Toluene	53.5		"	50.0		107	85-121				
trans-1,2-Dichloroethylene	46.9		"	50.0		93.8	72-132				
trans-1,3-Dichloropropylene	50.6		"	50.0		101	78-132				
Trichloroethylene	50.4		"	50.0		101	84-123				
Trichlorofluoromethane	54.1		"	50.0		108	62-140				
Vinyl Chloride	54.0		"	50.0		108	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>51.0</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>53.4</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>54.7</i>		<i>"</i>	<i>50.0</i>		<i>109</i>	<i>76-130</i>				



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
<b>Batch BL30237 - EPA 5035A</b>											
<b>LCS Dup (BL30237-BSD1)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	48.4		ug/L	50.0		96.9	75-129		5.62	30	
1,1,1-Trichloroethane	44.3		"	50.0		88.5	71-137		4.18	30	
1,1,2,2-Tetrachloroethane	56.7		"	50.0		113	79-129		5.66	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	43.9		"	50.0		87.7	58-146		4.85	30	
1,1,2-Trichloroethane	49.6		"	50.0		99.1	83-123		3.35	30	
1,1-Dichloroethane	44.0		"	50.0		88.0	75-130		4.10	30	
1,1-Dichloroethylene	47.1		"	50.0		94.3	64-137		3.05	30	
1,2,3-Trichlorobenzene	47.5		"	50.0		95.0	81-140		5.82	30	
1,2,3-Trichloropropane	50.7		"	50.0		101	81-126		3.18	30	
1,2,4-Trichlorobenzene	46.7		"	50.0		93.4	80-141		7.36	30	
1,2,4-Trimethylbenzene	54.9		"	50.0		110	84-125		6.01	30	
1,2-Dibromo-3-chloropropane	53.7		"	50.0		107	74-142		5.26	30	
1,2-Dibromoethane	50.6		"	50.0		101	86-123		3.29	30	
1,2-Dichlorobenzene	50.4		"	50.0		101	85-122		6.09	30	
1,2-Dichloroethane	46.3		"	50.0		92.7	71-133		3.93	30	
1,2-Dichloropropane	51.3		"	50.0		103	81-122		4.53	30	
1,3,5-Trimethylbenzene	55.0		"	50.0		110	82-126		6.15	30	
1,3-Dichlorobenzene	49.5		"	50.0		99.0	84-124		6.60	30	
1,4-Dichlorobenzene	49.6		"	50.0		99.2	84-124		4.32	30	
1,4-Dioxane	473		"	1050		45.1	10-228		1.68	30	
2-Butanone	40.6		"	50.0		81.3	58-147		4.21	30	
2-Hexanone	50.4		"	50.0		101	70-139		1.89	30	
4-Methyl-2-pentanone	51.3		"	50.0		103	72-132		0.892	30	
Acetone	34.0		"	50.0		68.0	36-155		0.295	30	
Acrolein	44.3		"	50.0		88.6	10-238		1.68	30	
Acrylonitrile	45.8		"	50.0		91.5	66-141		1.00	30	
Benzene	46.4		"	50.0		92.9	77-127		3.45	30	
Bromochloromethane	45.0		"	50.0		90.1	74-129		2.76	30	
Bromodichloromethane	50.0		"	50.0		99.9	81-124		4.46	30	
Bromoform	47.1		"	50.0		94.1	80-136		2.10	30	
Bromomethane	50.5		"	50.0		101	32-177		6.08	30	
Carbon disulfide	46.9		"	50.0		93.9	10-136		2.88	30	
Carbon tetrachloride	44.9		"	50.0		89.8	66-143		4.10	30	
Chlorobenzene	49.8		"	50.0		99.6	86-120		4.45	30	
Chloroethane	50.0		"	50.0		100	51-142		5.84	30	
Chloroform	44.4		"	50.0		88.8	76-131		4.08	30	
Chloromethane	50.0		"	50.0		100	49-132		1.82	30	
cis-1,2-Dichloroethylene	45.4		"	50.0		90.7	74-132		4.65	30	
cis-1,3-Dichloropropylene	49.3		"	50.0		98.7	81-129		4.71	30	
Cyclohexane	44.1		"	50.0		88.2	70-130		3.15	30	
Dibromochloromethane	48.0		"	50.0		96.1	10-200		5.64	30	
Dibromomethane	49.5		"	50.0		99.0	83-124		2.65	30	
Dichlorodifluoromethane	50.2		"	50.0		100	28-158		2.20	30	
Ethyl Benzene	52.0		"	50.0		104	84-125		4.20	30	
Hexachlorobutadiene	46.7		"	50.0		93.3	83-133		7.78	30	
Isopropylbenzene	54.8		"	50.0		110	81-127		5.50	30	
Methyl acetate	41.7		"	50.0		83.4	41-143		0.264	30	
Methyl tert-butyl ether (MTBE)	41.9		"	50.0		83.9	74-131		3.12	30	
Methylcyclohexane	49.2		"	50.0		98.3	70-130		3.40	30	
Methylene chloride	56.5		"	50.0		113	57-141		5.51	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
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**Batch BL30237 - EPA 5035A**

**LCS Dup (BL30237-BSD1)**

Prepared & Analyzed: 12/05/2023

n-Butylbenzene	55.2		ug/L	50.0		110	80-130		6.39	30	
n-Propylbenzene	54.3		"	50.0		109	74-136		6.23	30	
o-Xylene	51.1		"	50.0		102	83-123		3.61	30	
p- & m- Xylenes	102		"	100		102	82-128		4.06	30	
p-Isopropyltoluene	53.4		"	50.0		107	85-125		6.24	30	
sec-Butylbenzene	54.4		"	50.0		109	83-125		5.11	30	
Styrene	51.3		"	50.0		103	86-126		4.81	30	
tert-Butyl alcohol (TBA)	212		"	250		84.6	70-130		3.23	30	
tert-Butylbenzene	52.6		"	50.0		105	80-127		4.97	30	
Tetrachloroethylene	32.2		"	50.0		64.5	80-129	Low Bias	3.59	30	
Toluene	51.3		"	50.0		103	85-121		4.24	30	
trans-1,2-Dichloroethylene	46.0		"	50.0		92.0	72-132		1.92	30	
trans-1,3-Dichloropropylene	48.8		"	50.0		97.6	78-132		3.62	30	
Trichloroethylene	49.2		"	50.0		98.4	84-123		2.33	30	
Trichlorofluoromethane	51.2		"	50.0		102	62-140		5.57	30	
Vinyl Chloride	52.2		"	50.0		104	52-130		3.35	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	50.0		"	50.0		100	77-125				
Surrogate: SURR: Toluene-d8	53.5		"	50.0		107	85-120				
Surrogate: SURR: p-Bromofluorobenzene	54.5		"	50.0		109	76-130				

**Batch BL30316 - EPA 5035A**

**Blank (BL30316-BLK1)**

Prepared & Analyzed: 12/06/2023

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL30316 - EPA 5035A**

**Blank (BL30316-BLK1)**

Prepared & Analyzed: 12/06/2023

Bromodichloromethane	ND	5.0	ug/kg wet										
Bromoform	ND	5.0	"										
Bromomethane	ND	5.0	"										
Carbon disulfide	ND	5.0	"										
Carbon tetrachloride	ND	5.0	"										
Chlorobenzene	ND	5.0	"										
Chloroethane	ND	5.0	"										
Chloroform	ND	5.0	"										
Chloromethane	ND	5.0	"										
cis-1,2-Dichloroethylene	ND	5.0	"										
cis-1,3-Dichloropropylene	ND	5.0	"										
Cyclohexane	ND	5.0	"										
Dibromochloromethane	ND	5.0	"										
Dibromomethane	ND	5.0	"										
Dichlorodifluoromethane	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Hexachlorobutadiene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl acetate	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylcyclohexane	ND	5.0	"										
Methylene chloride	ND	10	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
p-Isopropyltoluene	ND	5.0	"										
sec-Butylbenzene	ND	5.0	"										
Styrene	ND	5.0	"										
tert-Butyl alcohol (TBA)	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
Tetrachloroethylene	ND	5.0	"										
Toluene	ND	5.0	"										
trans-1,2-Dichloroethylene	ND	5.0	"										
trans-1,3-Dichloropropylene	ND	5.0	"										
Trichloroethylene	ND	5.0	"										
Trichlorofluoromethane	ND	5.0	"										
Vinyl Chloride	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	49.8		ug/L	50.0		99.7	77-125						
<i>Surrogate: Surr: Toluene-d8</i>	52.7		"	50.0		105	85-120						
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	54.4		"	50.0		109	76-130						



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
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Batch BL30316 - EPA 5035A

Blank (BL30316-BLK2)

Prepared & Analyzed: 12/06/2023

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet								
1,1,1-Trichloroethane	ND	500	"								
1,1,2,2-Tetrachloroethane	ND	500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"								
1,1,2-Trichloroethane	ND	500	"								
1,1-Dichloroethane	ND	500	"								
1,1-Dichloroethylene	ND	500	"								
1,2,3-Trichlorobenzene	ND	500	"								
1,2,3-Trichloropropane	ND	500	"								
1,2,4-Trichlorobenzene	ND	500	"								
1,2,4-Trimethylbenzene	ND	500	"								
1,2-Dibromo-3-chloropropane	ND	500	"								
1,2-Dibromoethane	ND	500	"								
1,2-Dichlorobenzene	ND	500	"								
1,2-Dichloroethane	ND	500	"								
1,2-Dichloropropane	ND	500	"								
1,3,5-Trimethylbenzene	ND	500	"								
1,3-Dichlorobenzene	ND	500	"								
1,4-Dichlorobenzene	ND	500	"								
1,4-Dioxane	ND	10000	"								
2-Butanone	ND	500	"								
2-Hexanone	ND	500	"								
4-Methyl-2-pentanone	ND	500	"								
Acetone	ND	1000	"								
Acrolein	ND	1000	"								
Acrylonitrile	ND	500	"								
Benzene	ND	500	"								
Bromochloromethane	ND	500	"								
Bromodichloromethane	ND	500	"								
Bromoform	ND	500	"								
Bromomethane	ND	500	"								
Carbon disulfide	ND	500	"								
Carbon tetrachloride	ND	500	"								
Chlorobenzene	ND	500	"								
Chloroethane	ND	500	"								
Chloroform	ND	500	"								
Chloromethane	ND	500	"								
cis-1,2-Dichloroethylene	ND	500	"								
cis-1,3-Dichloropropylene	ND	500	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	ND	1000	"								



**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
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**Batch BL30316 - EPA 5035A**

**Blank (BL30316-BLK2)**

Prepared & Analyzed: 12/06/2023

n-Butylbenzene	ND	500	ug/kg wet								
n-Propylbenzene	ND	500	"								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.3		ug/L	50.0		98.6	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	52.4		"	50.0		105	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	54.9		"	50.0		110	76-130				

**LCS (BL30316-BS1)**

Prepared & Analyzed: 12/06/2023

1,1,1,2-Tetrachloroethane	48.2		ug/L	50.0		96.3	75-129				
1,1,1-Trichloroethane	43.1		"	50.0		86.3	71-137				
1,1,2,2-Tetrachloroethane	57.8		"	50.0		116	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	42.5		"	50.0		84.9	58-146				
1,1,2-Trichloroethane	49.5		"	50.0		99.1	83-123				
1,1-Dichloroethane	42.5		"	50.0		85.0	75-130				
1,1-Dichloroethylene	44.9		"	50.0		89.8	64-137				
1,2,3-Trichlorobenzene	49.0		"	50.0		98.1	81-140				
1,2,3-Trichloropropane	51.3		"	50.0		103	81-126				
1,2,4-Trichlorobenzene	48.7		"	50.0		97.4	80-141				
1,2,4-Trimethylbenzene	54.4		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	56.2		"	50.0		112	74-142				
1,2-Dibromoethane	50.1		"	50.0		100	86-123				
1,2-Dichlorobenzene	50.4		"	50.0		101	85-122				
1,2-Dichloroethane	46.4		"	50.0		92.8	71-133				
1,2-Dichloropropane	49.8		"	50.0		99.6	81-122				
1,3,5-Trimethylbenzene	54.0		"	50.0		108	82-126				
1,3-Dichlorobenzene	50.1		"	50.0		100	84-124				
1,4-Dichlorobenzene	49.6		"	50.0		99.1	84-124				
1,4-Dioxane	436		"	1050		41.5	10-228				
2-Butanone	41.1		"	50.0		82.1	58-147				
2-Hexanone	49.8		"	50.0		99.6	70-139				
4-Methyl-2-pentanone	50.8		"	50.0		102	72-132				
Acetone	33.1		"	50.0		66.3	36-155				
Acrolein	44.9		"	50.0		89.9	10-238				
Acrylonitrile	44.8		"	50.0		89.5	66-141				
Benzene	45.1		"	50.0		90.2	77-127				
Bromochloromethane	43.7		"	50.0		87.4	74-129				





**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL30316 - EPA 5035A**

**LCS (BL30316-BS1)**

Prepared & Analyzed: 12/06/2023

Bromodichloromethane	49.1		ug/L	50.0		98.3		81-124					
Bromoform	46.6		"	50.0		93.2		80-136					
Bromomethane	50.2		"	50.0		100		32-177					
Carbon disulfide	44.3		"	50.0		88.6		10-136					
Carbon tetrachloride	44.1		"	50.0		88.2		66-143					
Chlorobenzene	49.0		"	50.0		97.9		86-120					
Chloroethane	49.6		"	50.0		99.1		51-142					
Chloroform	43.3		"	50.0		86.6		76-131					
Chloromethane	47.1		"	50.0		94.3		49-132					
cis-1,2-Dichloroethylene	44.7		"	50.0		89.3		74-132					
cis-1,3-Dichloropropylene	48.5		"	50.0		96.9		81-129					
Cyclohexane	42.4		"	50.0		84.8		70-130					
Dibromochloromethane	47.6		"	50.0		95.2		10-200					
Dibromomethane	49.0		"	50.0		98.1		83-124					
Dichlorodifluoromethane	46.2		"	50.0		92.3		28-158					
Ethyl Benzene	50.6		"	50.0		101		84-125					
Hexachlorobutadiene	47.7		"	50.0		95.4		83-133					
Isopropylbenzene	52.8		"	50.0		106		81-127					
Methyl acetate	41.9		"	50.0		83.8		41-143					
Methyl tert-butyl ether (MTBE)	42.7		"	50.0		85.4		74-131					
Methylcyclohexane	47.7		"	50.0		95.4		70-130					
Methylene chloride	43.2		"	50.0		86.3		57-141					
n-Butylbenzene	55.7		"	50.0		111		80-130					
n-Propylbenzene	53.1		"	50.0		106		74-136					
o-Xylene	49.8		"	50.0		99.7		83-123					
p- & m- Xylenes	101		"	100		101		82-128					
p-Isopropyltoluene	53.2		"	50.0		106		85-125					
sec-Butylbenzene	53.0		"	50.0		106		83-125					
Styrene	50.2		"	50.0		100		86-126					
tert-Butyl alcohol (TBA)	206		"	250		82.5		70-130					
tert-Butylbenzene	51.3		"	50.0		103		80-127					
Tetrachloroethylene	31.4		"	50.0		62.8		80-129	Low Bias				
Toluene	50.1		"	50.0		100		85-121					
trans-1,2-Dichloroethylene	44.3		"	50.0		88.6		72-132					
trans-1,3-Dichloropropylene	47.8		"	50.0		95.6		78-132					
Trichloroethylene	46.8		"	50.0		93.7		84-123					
Trichlorofluoromethane	51.3		"	50.0		103		62-140					
Vinyl Chloride	51.2		"	50.0		102		52-130					
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>51.0</i>		<i>"</i>	<i>50.0</i>		<i>102</i>		<i>77-125</i>					
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.8</i>		<i>"</i>	<i>50.0</i>		<i>106</i>		<i>85-120</i>					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>53.7</i>		<i>"</i>	<i>50.0</i>		<i>107</i>		<i>76-130</i>					



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit			Result					RPD	Limit
<b>Batch BL30316 - EPA 5035A</b>											
<b>LCS Dup (BL30316-BSD1)</b>											
										Prepared & Analyzed: 12/06/2023	
1,1,1,2-Tetrachloroethane	48.5		ug/L	50.0		97.0	75-129			0.662	30
1,1,1-Trichloroethane	43.2		"	50.0		86.3	71-137			0.0464	30
1,1,2,2-Tetrachloroethane	56.7		"	50.0		113	79-129			2.04	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	42.4		"	50.0		84.8	58-146			0.165	30
1,1,2-Trichloroethane	49.6		"	50.0		99.3	83-123			0.202	30
1,1-Dichloroethane	42.3		"	50.0		84.6	75-130			0.519	30
1,1-Dichloroethylene	45.0		"	50.0		90.0	64-137			0.178	30
1,2,3-Trichlorobenzene	48.9		"	50.0		97.7	81-140			0.327	30
1,2,3-Trichloropropane	51.9		"	50.0		104	81-126			1.07	30
1,2,4-Trichlorobenzene	48.9		"	50.0		97.9	80-141			0.451	30
1,2,4-Trimethylbenzene	54.4		"	50.0		109	84-125			0.0552	30
1,2-Dibromo-3-chloropropane	54.4		"	50.0		109	74-142			3.18	30
1,2-Dibromoethane	49.9		"	50.0		99.9	86-123			0.320	30
1,2-Dichlorobenzene	50.2		"	50.0		100	85-122			0.397	30
1,2-Dichloroethane	46.0		"	50.0		92.0	71-133			0.866	30
1,2-Dichloropropane	50.2		"	50.0		100	81-122			0.800	30
1,3,5-Trimethylbenzene	54.3		"	50.0		109	82-126			0.517	30
1,3-Dichlorobenzene	49.9		"	50.0		99.8	84-124			0.480	30
1,4-Dichlorobenzene	49.4		"	50.0		98.8	84-124			0.364	30
1,4-Dioxane	458		"	1050		43.6	10-228			4.96	30
2-Butanone	39.9		"	50.0		79.8	58-147			2.92	30
2-Hexanone	49.0		"	50.0		98.1	70-139			1.50	30
4-Methyl-2-pentanone	50.6		"	50.0		101	72-132			0.375	30
Acetone	32.2		"	50.0		64.4	36-155			2.82	30
Acrolein	45.1		"	50.0		90.1	10-238			0.267	30
Acrylonitrile	44.8		"	50.0		89.6	66-141			0.0893	30
Benzene	45.1		"	50.0		90.3	77-127			0.111	30
Bromochloromethane	44.1		"	50.0		88.2	74-129			0.888	30
Bromodichloromethane	49.0		"	50.0		98.1	81-124			0.183	30
Bromoform	47.1		"	50.0		94.1	80-136			0.961	30
Bromomethane	49.1		"	50.0		98.3	32-177			2.09	30
Carbon disulfide	44.9		"	50.0		89.8	10-136			1.39	30
Carbon tetrachloride	43.7		"	50.0		87.5	66-143			0.843	30
Chlorobenzene	49.4		"	50.0		98.8	86-120			0.834	30
Chloroethane	48.7		"	50.0		97.3	51-142			1.79	30
Chloroform	43.2		"	50.0		86.3	76-131			0.278	30
Chloromethane	47.8		"	50.0		95.7	49-132			1.47	30
cis-1,2-Dichloroethylene	44.1		"	50.0		88.2	74-132			1.31	30
cis-1,3-Dichloropropylene	49.1		"	50.0		98.2	81-129			1.25	30
Cyclohexane	42.4		"	50.0		84.7	70-130			0.0708	30
Dibromochloromethane	47.8		"	50.0		95.6	10-200			0.398	30
Dibromomethane	49.0		"	50.0		98.1	83-124			0.0204	30
Dichlorodifluoromethane	46.7		"	50.0		93.4	28-158			1.21	30
Ethyl Benzene	50.9		"	50.0		102	84-125			0.453	30
Hexachlorobutadiene	46.7		"	50.0		93.5	83-133			2.01	30
Isopropylbenzene	53.3		"	50.0		107	81-127			0.905	30
Methyl acetate	40.9		"	50.0		81.8	41-143			2.39	30
Methyl tert-butyl ether (MTBE)	42.2		"	50.0		84.4	74-131			1.15	30
Methylcyclohexane	47.1		"	50.0		94.2	70-130			1.27	30
Methylene chloride	42.9		"	50.0		85.7	57-141			0.674	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
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**Batch BL30316 - EPA 5035A**

**LCS Dup (BL30316-BSD1)**

Prepared & Analyzed: 12/06/2023

n-Butylbenzene	55.0		ug/L	50.0		110	80-130		1.37	30	
n-Propylbenzene	53.2		"	50.0		106	74-136		0.226	30	
o-Xylene	50.2		"	50.0		100	83-123		0.660	30	
p- & m- Xylenes	101		"	100		101	82-128		0.0597	30	
p-Isopropyltoluene	52.7		"	50.0		105	85-125		0.869	30	
sec-Butylbenzene	52.6		"	50.0		105	83-125		0.738	30	
Styrene	50.8		"	50.0		102	86-126		1.17	30	
tert-Butyl alcohol (TBA)	212		"	250		84.8	70-130		2.79	30	
tert-Butylbenzene	50.9		"	50.0		102	80-127		0.822	30	
Tetrachloroethylene	31.3		"	50.0		62.7	80-129	Low Bias	0.223	30	
Toluene	50.0		"	50.0		100	85-121		0.160	30	
trans-1,2-Dichloroethylene	44.1		"	50.0		88.1	72-132		0.543	30	
trans-1,3-Dichloropropylene	47.8		"	50.0		95.5	78-132		0.105	30	
Trichloroethylene	47.7		"	50.0		95.3	84-123		1.78	30	
Trichlorofluoromethane	49.8		"	50.0		99.6	62-140		3.09	30	
Vinyl Chloride	50.3		"	50.0		101	52-130		1.79	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>53.3</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>53.6</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>76-130</i>				



Semivolatile 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
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Batch BL30090 - EPA 3550C

Blank (BL30090-BLK1)

Prepared: 12/03/2023 Analyzed: 12/05/2023

1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								



Semivolatile 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
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Batch BL30090 - EPA 3550C

Blank (BL30090-BLK1)

Prepared: 12/03/2023 Analyzed: 12/05/2023

Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	1.41		"	1.66		84.6	20-108				
Surrogate: SURR: Phenol-d6	1.38		"	1.66		83.1	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.689		"	0.831		82.9	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.797		"	0.831		96.0	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	2.19		"	1.66		132	19-110				
Surrogate: SURR: Terphenyl-d14	0.869		"	0.831		105	24-116				



Semivolatile 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
<b>Batch BL30090 - EPA 3550C</b>											
<b>LCS (BL30090-BS1)</b>											
						Prepared: 12/03/2023 Analyzed: 12/05/2023					
1,1-Biphenyl	0.656	0.0416	mg/kg wet	0.831		79.0	18-111				
1,2,4,5-Tetrachlorobenzene	0.653	0.0830	"	0.831		78.6	21-131				
1,2,4-Trichlorobenzene	0.650	0.0416	"	0.831		78.2	10-140				
1,2-Dichlorobenzene	0.580	0.0416	"	0.831		69.8	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.535	0.0416	"	0.831		64.4	17-137				
1,3-Dichlorobenzene	0.565	0.0416	"	0.831		68.1	33-110				
1,4-Dichlorobenzene	0.579	0.0416	"	0.831		69.8	32-104				
2,3,4,6-Tetrachlorophenol	0.693	0.0830	"	0.831		83.5	30-130				
2,4,5-Trichlorophenol	0.636	0.0416	"	0.831		76.5	27-118				
2,4,6-Trichlorophenol	0.728	0.0416	"	0.831		87.6	31-120				
2,4-Dichlorophenol	0.697	0.0416	"	0.831		84.0	20-127				
2,4-Dimethylphenol	0.509	0.0416	"	0.831		61.2	14-132				
2,4-Dinitrophenol	0.753	0.0830	"	0.831		90.7	10-171				
2,4-Dinitrotoluene	0.841	0.0416	"	0.831		101	34-131				
2,6-Dinitrotoluene	0.795	0.0416	"	0.831		95.8	31-128				
2-Chloronaphthalene	0.614	0.0416	"	0.831		73.9	31-117				
2-Chlorophenol	0.619	0.0416	"	0.831		74.5	33-113				
2-Methylnaphthalene	0.649	0.0416	"	0.831		78.1	12-138				
2-Methylphenol	0.582	0.0416	"	0.831		70.1	10-136				
2-Nitroaniline	0.784	0.0830	"	0.831		94.4	27-132				
2-Nitrophenol	0.820	0.0416	"	0.831		98.7	17-129				
3- & 4-Methylphenols	0.519	0.0416	"	0.831		62.5	29-103				
3,3-Dichlorobenzidine	0.541	0.0416	"	0.831		65.1	22-149				
3-Nitroaniline	0.632	0.0830	"	0.831		76.1	20-133				
4,6-Dinitro-2-methylphenol	1.05	0.0830	"	0.831		127	10-143				
4-Bromophenyl phenyl ether	0.714	0.0416	"	0.831		85.9	29-120				
4-Chloro-3-methylphenol	0.658	0.0416	"	0.831		79.2	24-129				
4-Chloroaniline	0.422	0.0416	"	0.831		50.8	10-132				
4-Chlorophenyl phenyl ether	0.671	0.0416	"	0.831		80.8	27-124				
4-Nitroaniline	0.666	0.0830	"	0.831		80.2	16-128				
4-Nitrophenol	0.428	0.0830	"	0.831		51.5	10-141				
Acenaphthene	0.621	0.0416	"	0.831		74.7	30-121				
Acenaphthylene	0.598	0.0416	"	0.831		72.0	30-115				
Acetophenone	0.564	0.0416	"	0.831		67.9	20-112				
Aniline	0.389	0.166	"	0.831		46.8	10-119				
Anthracene	0.634	0.0416	"	0.831		76.3	34-118				
Atrazine	0.744	0.0416	"	0.831		89.6	26-112				
Benzaldehyde	0.436	0.0416	"	0.831		52.5	21-100				
Benzo(a)anthracene	0.685	0.0416	"	0.831		82.5	32-122				
Benzo(a)pyrene	0.655	0.0416	"	0.831		78.8	29-133				
Benzo(b)fluoranthene	0.667	0.0416	"	0.831		80.3	25-133				
Benzo(g,h,i)perylene	0.630	0.0416	"	0.831		75.9	10-143				
Benzo(k)fluoranthene	0.633	0.0416	"	0.831		76.2	25-128				
Benzoic acid	0.0877	0.0416	"	0.831		10.6	10-140				
Benzyl alcohol	0.581	0.0416	"	0.831		70.0	30-115				
Benzyl butyl phthalate	0.745	0.0416	"	0.831		89.6	26-126				
Bis(2-chloroethoxy)methane	0.573	0.0416	"	0.831		69.0	19-132				
Bis(2-chloroethyl)ether	0.539	0.0416	"	0.831		64.9	19-125				
Bis(2-chloroisopropyl)ether	0.398	0.0416	"	0.831		47.9	20-135				
Bis(2-ethylhexyl)phthalate	0.746	0.0416	"	0.831		89.8	10-155				
Caprolactam	0.784	0.0830	"	0.831		94.4	10-127				



Semivolatile 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
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Batch BL30090 - EPA 3550C

LCS (BL30090-BS1)

Prepared: 12/03/2023 Analyzed: 12/05/2023

Carbazole	0.638	0.0416	mg/kg wet	0.831		76.8	35-123				
Chrysene	0.635	0.0416	"	0.831		76.4	32-123				
Dibenzo(a,h)anthracene	0.666	0.0416	"	0.831		80.2	10-136				
Dibenzofuran	0.639	0.0416	"	0.831		77.0	29-121				
Diethyl phthalate	0.639	0.0416	"	0.831		76.9	34-116				
Dimethyl phthalate	0.631	0.0416	"	0.831		76.0	35-124				
Di-n-butyl phthalate	0.660	0.0416	"	0.831		79.4	31-116				
Di-n-octyl phthalate	0.852	0.0416	"	0.831		103	26-136				
Fluoranthene	0.639	0.0416	"	0.831		76.9	33-122				
Fluorene	0.649	0.0416	"	0.831		78.2	29-123				
Hexachlorobenzene	0.584	0.0416	"	0.831		70.3	21-124				
Hexachlorobutadiene	0.648	0.0416	"	0.831		78.0	10-149				
Hexachlorocyclopentadiene	0.109	0.0416	"	0.831		13.1	10-129				
Hexachloroethane	0.573	0.0416	"	0.831		69.0	28-108				
Indeno(1,2,3-cd)pyrene	0.915	0.0416	"	0.831		110	10-135				
Isophorone	0.560	0.0416	"	0.831		67.4	20-132				
Naphthalene	0.613	0.0416	"	0.831		73.8	23-124				
Nitrobenzene	0.529	0.0416	"	0.831		63.6	13-132				
N-Nitrosodimethylamine	0.466	0.0416	"	0.831		56.1	11-129				
N-nitroso-di-n-propylamine	0.481	0.0416	"	0.831		57.9	24-119				
N-Nitrosodiphenylamine	0.755	0.0416	"	0.831		90.9	22-152				
Pentachlorophenol	0.523	0.0416	"	0.831		63.0	10-139				
Phenanthrene	0.626	0.0416	"	0.831		75.3	33-123				
Phenol	0.576	0.0416	"	0.831		69.3	23-115				
Pyrene	0.677	0.0416	"	0.831		81.5	24-130				
Pyridine	0.419	0.166	"	0.831		50.5	10-91				
Surrogate: SURR: 2-Fluorophenol	1.20		"	1.66		72.2	20-108				
Surrogate: SURR: Phenol-d6	1.21		"	1.66		72.7	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.598		"	0.831		72.0	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.674		"	0.831		81.2	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.86		"	1.66		112	19-110				
Surrogate: SURR: Terphenyl-d14	0.742		"	0.831		89.3	24-116				





Semivolatile 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	
<b>Batch BL30090 - EPA 3550C</b>												
<b>Matrix Spike (BL30090-MS1)</b>	*Source sample: 23K1840-05 (Matrix Spike)						Prepared: 12/03/2023 Analyzed: 12/05/2023					
1,1-Biphenyl	0.693	0.0899	mg/kg dry	0.899	ND	77.1	10-130					
1,2,4,5-Tetrachlorobenzene	0.696	0.180	"	0.899	ND	77.4	10-133					
1,2,4-Trichlorobenzene	0.682	0.0899	"	0.899	ND	75.8	10-127					
1,2-Dichlorobenzene	0.596	0.0899	"	0.899	ND	66.3	14-111					
1,2-Diphenylhydrazine (as Azobenzene)	0.548	0.0899	"	0.899	ND	61.0	10-144					
1,3-Dichlorobenzene	0.566	0.0899	"	0.899	ND	63.0	11-111					
1,4-Dichlorobenzene	0.582	0.0899	"	0.899	ND	64.8	10-106					
2,3,4,6-Tetrachlorophenol	0.710	0.180	"	0.899	ND	79.0	30-130					
2,4,5-Trichlorophenol	0.676	0.0899	"	0.899	ND	75.2	10-127					
2,4,6-Trichlorophenol	0.774	0.0899	"	0.899	ND	86.2	10-132					
2,4-Dichlorophenol	0.742	0.0899	"	0.899	ND	82.6	10-128					
2,4-Dimethylphenol	0.501	0.0899	"	0.899	ND	55.8	10-137					
2,4-Dinitrophenol	0.365	0.180	"	0.899	ND	40.6	10-171					
2,4-Dinitrotoluene	0.886	0.0899	"	0.899	ND	98.6	16-135					
2,6-Dinitrotoluene	0.881	0.0899	"	0.899	ND	98.0	18-131					
2-Chloronaphthalene	0.661	0.0899	"	0.899	ND	73.6	10-129					
2-Chlorophenol	0.651	0.0899	"	0.899	ND	72.5	15-116					
2-Methylnaphthalene	0.692	0.0899	"	0.899	ND	77.0	10-147					
2-Methylphenol	0.597	0.0899	"	0.899	ND	66.4	10-136					
2-Nitroaniline	0.824	0.180	"	0.899	ND	91.7	10-137					
2-Nitrophenol	0.866	0.0899	"	0.899	ND	96.3	10-129					
3- & 4-Methylphenols	0.519	0.0899	"	0.899	ND	57.8	10-123					
3,3-Dichlorobenzidine	0.514	0.0899	"	0.899	ND	57.2	10-155					
3-Nitroaniline	0.708	0.180	"	0.899	ND	78.8	12-133					
4,6-Dinitro-2-methylphenol	0.812	0.180	"	0.899	ND	90.4	10-155					
4-Bromophenyl phenyl ether	0.730	0.0899	"	0.899	ND	81.3	14-128					
4-Chloro-3-methylphenol	0.707	0.0899	"	0.899	ND	78.7	10-134					
4-Chloroaniline	0.489	0.0899	"	0.899	ND	54.4	10-145					
4-Chlorophenyl phenyl ether	0.716	0.0899	"	0.899	ND	79.7	14-130					
4-Nitroaniline	0.714	0.180	"	0.899	ND	79.4	10-147					
4-Nitrophenol	0.379	0.180	"	0.899	ND	42.2	10-137					
Acenaphthene	0.652	0.0899	"	0.899	ND	72.6	10-146					
Acenaphthylene	0.649	0.0899	"	0.899	ND	72.2	10-134					
Acetophenone	0.579	0.0899	"	0.899	ND	64.5	10-116					
Aniline	0.384	0.360	"	0.899	ND	42.7	10-123					
Anthracene	0.686	0.0899	"	0.899	ND	76.3	10-142					
Atrazine	0.830	0.0899	"	0.899	ND	92.4	19-115					
Benzaldehyde	0.470	0.0899	"	0.899	ND	52.3	10-125					
Benzo(a)anthracene	0.715	0.0899	"	0.899	ND	79.5	10-158					
Benzo(a)pyrene	0.678	0.0899	"	0.899	ND	75.4	10-180					
Benzo(b)fluoranthene	0.689	0.0899	"	0.899	ND	76.6	10-200					
Benzo(g,h,i)perylene	0.654	0.0899	"	0.899	ND	72.7	10-138					
Benzo(k)fluoranthene	0.691	0.0899	"	0.899	ND	76.9	10-197					
Benzoic acid	ND	0.0899	"	0.899	ND		10-166	Low Bias				
Benzyl alcohol	0.593	0.0899	"	0.899	ND	66.0	12-124					
Benzyl butyl phthalate	0.738	0.0899	"	0.899	ND	82.2	10-154					
Bis(2-chloroethoxy)methane	0.604	0.0899	"	0.899	ND	67.2	10-132					
Bis(2-chloroethyl)ether	0.576	0.0899	"	0.899	ND	64.1	10-119					
Bis(2-chloroisopropyl)ether	0.388	0.0899	"	0.899	ND	43.2	10-139					
Bis(2-ethylhexyl)phthalate	0.764	0.0899	"	0.899	ND	85.0	10-167					
Caprolactam	0.911	0.180	"	0.899	ND	101	10-132					



Semivolatile 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
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Batch BL30090 - EPA 3550C

Matrix Spike (BL30090-MS1)	*Source sample: 23K1840-05 (Matrix Spike)						Prepared: 12/03/2023 Analyzed: 12/05/2023	
Carbazole	0.703	0.0899	mg/kg dry	0.899	ND	78.2	10-167	
Chrysene	0.662	0.0899	"	0.899	ND	73.7	10-156	
Dibenzo(a,h)anthracene	0.708	0.0899	"	0.899	ND	78.8	10-137	
Dibenzofuran	0.681	0.0899	"	0.899	ND	75.8	10-147	
Diethyl phthalate	0.688	0.0899	"	0.899	ND	76.6	20-120	
Dimethyl phthalate	0.703	0.0899	"	0.899	ND	78.2	18-131	
Di-n-butyl phthalate	0.710	0.0899	"	0.899	ND	79.0	10-137	
Di-n-octyl phthalate	0.855	0.0899	"	0.899	ND	95.1	10-180	
Fluoranthene	0.693	0.0899	"	0.899	ND	77.1	10-160	
Fluorene	0.684	0.0899	"	0.899	ND	76.1	10-157	
Hexachlorobenzene	0.616	0.0899	"	0.899	ND	68.6	10-137	
Hexachlorobutadiene	0.670	0.0899	"	0.899	ND	74.6	10-132	
Hexachlorocyclopentadiene	0.0496	0.0899	"	0.899	ND	5.52	10-106	Low Bias
Hexachloroethane	0.561	0.0899	"	0.899	ND	62.4	10-110	
Indeno(1,2,3-cd)pyrene	0.977	0.0899	"	0.899	ND	109	10-144	
Isophorone	0.569	0.0899	"	0.899	ND	63.3	10-132	
Naphthalene	0.654	0.0899	"	0.899	ND	72.8	10-141	
Nitrobenzene	0.564	0.0899	"	0.899	ND	62.8	10-131	
N-Nitrosodimethylamine	0.482	0.0899	"	0.899	ND	53.7	10-126	
N-nitroso-di-n-propylamine	0.489	0.0899	"	0.899	ND	54.4	10-125	
N-Nitrosodiphenylamine	0.797	0.0899	"	0.899	ND	88.6	10-177	
Pentachlorophenol	0.415	0.0899	"	0.899	ND	46.2	10-153	
Phenanthrene	0.669	0.0899	"	0.899	ND	74.4	10-148	
Phenol	0.595	0.0899	"	0.899	ND	66.2	10-126	
Pyrene	0.679	0.0899	"	0.899	ND	75.6	10-165	
Pyridine	0.408	0.360	"	0.899	ND	45.4	10-83	
Surrogate: SURR: 2-Fluorophenol	1.23		"	1.80		68.7	20-108	
Surrogate: SURR: Phenol-d6	1.25		"	1.80		69.4	23-114	
Surrogate: SURR: Nitrobenzene-d5	0.633		"	0.899		70.4	22-108	
Surrogate: SURR: 2-Fluorobiphenyl	0.680		"	0.899		75.7	21-113	
Surrogate: SURR: 2,4,6-Tribromophenol	1.91		"	1.80		106	19-110	
Surrogate: SURR: Terphenyl-d14	0.736		"	0.899		81.9	24-116	



## Semivolatile 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
<b>Batch BL30090 - EPA 3550C</b>											
<b>Matrix Spike Dup (BL30090-MSD1)</b>	*Source sample: 23K1840-05 (Matrix Spike Dup)						Prepared: 12/03/2023 Analyzed: 12/05/2023				
1,1-Biphenyl	0.478	0.0889	mg/kg dry	0.888	ND	53.8	10-130		36.8	30	Non-dir.
1,2,4,5-Tetrachlorobenzene	0.483	0.178	"	0.888	ND	54.3	10-133		36.2	30	Non-dir.
1,2,4-Trichlorobenzene	0.466	0.0889	"	0.888	ND	52.4	10-127		37.7	30	Non-dir.
1,2-Dichlorobenzene	0.405	0.0889	"	0.888	ND	45.6	14-111		38.1	30	Non-dir.
1,2-Diphenylhydrazine (as Azobenzene)	0.374	0.0889	"	0.888	ND	42.1	10-144		37.8	30	Non-dir.
1,3-Dichlorobenzene	0.387	0.0889	"	0.888	ND	43.5	11-111		37.6	30	Non-dir.
1,4-Dichlorobenzene	0.409	0.0889	"	0.888	ND	46.0	10-106		35.0	30	Non-dir.
2,3,4,6-Tetrachlorophenol	0.367	0.178	"	0.888	ND	41.4	30-130		63.5	30	Non-dir.
2,4,5-Trichlorophenol	0.441	0.0889	"	0.888	ND	49.7	10-127		42.0	30	Non-dir.
2,4,6-Trichlorophenol	0.505	0.0889	"	0.888	ND	56.9	10-132		42.0	30	Non-dir.
2,4-Dichlorophenol	0.514	0.0889	"	0.888	ND	57.8	10-128		36.3	30	Non-dir.
2,4-Dimethylphenol	0.330	0.0889	"	0.888	ND	37.2	10-137		41.0	30	Non-dir.
2,4-Dinitrophenol	0.107	0.178	"	0.888	ND	12.1	10-171		109	30	Non-dir.
2,4-Dinitrotoluene	0.588	0.0889	"	0.888	ND	66.2	16-135		40.3	30	Non-dir.
2,6-Dinitrotoluene	0.591	0.0889	"	0.888	ND	66.5	18-131		39.4	30	Non-dir.
2-Chloronaphthalene	0.453	0.0889	"	0.888	ND	51.0	10-129		37.5	30	Non-dir.
2-Chlorophenol	0.462	0.0889	"	0.888	ND	52.0	15-116		34.0	30	Non-dir.
2-Methylnaphthalene	0.471	0.0889	"	0.888	ND	53.0	10-147		38.1	30	Non-dir.
2-Methylphenol	0.420	0.0889	"	0.888	ND	47.3	10-136		34.8	30	Non-dir.
2-Nitroaniline	0.566	0.178	"	0.888	ND	63.8	10-137		37.0	30	Non-dir.
2-Nitrophenol	0.603	0.0889	"	0.888	ND	67.8	10-129		35.8	30	Non-dir.
3- & 4-Methylphenols	0.362	0.0889	"	0.888	ND	40.7	10-123		35.7	30	Non-dir.
3,3-Dichlorobenzidine	0.340	0.0889	"	0.888	ND	38.3	10-155		40.6	30	Non-dir.
3-Nitroaniline	0.485	0.178	"	0.888	ND	54.6	12-133		37.3	30	Non-dir.
4,6-Dinitro-2-methylphenol	0.448	0.178	"	0.888	ND	50.5	10-155		57.7	30	Non-dir.
4-Bromophenyl phenyl ether	0.512	0.0889	"	0.888	ND	57.7	14-128		35.1	30	Non-dir.
4-Chloro-3-methylphenol	0.489	0.0889	"	0.888	ND	55.0	10-134		36.5	30	Non-dir.
4-Chloroaniline	0.333	0.0889	"	0.888	ND	37.5	10-145		37.8	30	Non-dir.
4-Chlorophenyl phenyl ether	0.487	0.0889	"	0.888	ND	54.8	14-130		38.1	30	Non-dir.
4-Nitroaniline	0.461	0.178	"	0.888	ND	51.8	10-147		43.1	30	Non-dir.
4-Nitrophenol	0.235	0.178	"	0.888	ND	26.4	10-137		47.1	30	Non-dir.
Acenaphthene	0.456	0.0889	"	0.888	ND	51.3	10-146		35.5	30	Non-dir.
Acenaphthylene	0.456	0.0889	"	0.888	ND	51.3	10-134		35.1	30	Non-dir.
Acetophenone	0.418	0.0889	"	0.888	ND	47.0	10-116		32.4	30	Non-dir.
Aniline	0.272	0.356	"	0.888	ND	30.6	10-123		34.3	30	Non-dir.
Anthracene	0.454	0.0889	"	0.888	ND	51.1	10-142		40.7	30	Non-dir.
Atrazine	0.555	0.0889	"	0.888	ND	62.5	19-115		39.7	30	Non-dir.
Benzaldehyde	0.343	0.0889	"	0.888	ND	38.6	10-125		31.2	30	Non-dir.
Benzo(a)anthracene	0.478	0.0889	"	0.888	ND	53.8	10-158		39.6	30	Non-dir.
Benzo(a)pyrene	0.453	0.0889	"	0.888	ND	51.0	10-180		39.8	30	Non-dir.
Benzo(b)fluoranthene	0.453	0.0889	"	0.888	ND	51.0	10-200		41.2	30	Non-dir.
Benzo(g,h,i)perylene	0.441	0.0889	"	0.888	ND	49.7	10-138		38.8	30	Non-dir.
Benzo(k)fluoranthene	0.467	0.0889	"	0.888	ND	52.6	10-197		38.7	30	Non-dir.
Benzoic acid	ND	0.0889	"	0.888	ND		10-166	Low Bias		30	
Benzyl alcohol	0.414	0.0889	"	0.888	ND	46.6	12-124		35.7	30	Non-dir.
Benzyl butyl phthalate	0.512	0.0889	"	0.888	ND	57.7	10-154		36.1	30	Non-dir.
Bis(2-chloroethoxy)methane	0.424	0.0889	"	0.888	ND	47.7	10-132		35.1	30	Non-dir.
Bis(2-chloroethyl)ether	0.387	0.0889	"	0.888	ND	43.6	10-119		39.1	30	Non-dir.
Bis(2-chloroisopropyl)ether	0.278	0.0889	"	0.888	ND	31.3	10-139		33.1	30	Non-dir.
Bis(2-ethylhexyl)phthalate	0.525	0.0889	"	0.888	ND	59.1	10-167		37.0	30	Non-dir.
Caprolactam	0.608	0.178	"	0.888	ND	68.5	10-132		39.8	30	Non-dir.



Semivolatile 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
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Batch BL30090 - EPA 3550C

Matrix Spike Dup (BL30090-MSD1)

\*Source sample: 23K1840-05 (Matrix Spike Dup)

Prepared: 12/03/2023 Analyzed: 12/05/2023

Carbazole	0.464	0.0889	mg/kg dry	0.888	ND	52.2	10-167		41.0	30	Non-dir.
Chrysene	0.461	0.0889	"	0.888	ND	51.9	10-156		35.8	30	Non-dir.
Dibenzo(a,h)anthracene	0.469	0.0889	"	0.888	ND	52.8	10-137		40.6	30	Non-dir.
Dibenzofuran	0.469	0.0889	"	0.888	ND	52.8	10-147		36.8	30	Non-dir.
Diethyl phthalate	0.472	0.0889	"	0.888	ND	53.1	20-120		37.3	30	Non-dir.
Dimethyl phthalate	0.476	0.0889	"	0.888	ND	53.6	18-131		38.5	30	Non-dir.
Di-n-butyl phthalate	0.471	0.0889	"	0.888	ND	53.0	10-137		40.5	30	Non-dir.
Di-n-octyl phthalate	0.583	0.0889	"	0.888	ND	65.6	10-180		37.8	30	Non-dir.
Fluoranthene	0.455	0.0889	"	0.888	ND	51.2	10-160		41.5	30	Non-dir.
Fluorene	0.473	0.0889	"	0.888	ND	53.2	10-157		36.5	30	Non-dir.
Hexachlorobenzene	0.427	0.0889	"	0.888	ND	48.1	10-137		36.2	30	Non-dir.
Hexachlorobutadiene	0.436	0.0889	"	0.888	ND	49.0	10-132		42.4	30	Non-dir.
Hexachlorocyclopentadiene	ND	0.0889	"	0.888	ND		10-106	Low Bias		30	
Hexachloroethane	0.357	0.0889	"	0.888	ND	40.2	10-110		44.5	30	Non-dir.
Indeno(1,2,3-cd)pyrene	0.656	0.0889	"	0.888	ND	73.8	10-144		39.3	30	Non-dir.
Isophorone	0.405	0.0889	"	0.888	ND	45.6	10-132		33.6	30	Non-dir.
Naphthalene	0.454	0.0889	"	0.888	ND	51.1	10-141		36.1	30	Non-dir.
Nitrobenzene	0.407	0.0889	"	0.888	ND	45.8	10-131		32.3	30	Non-dir.
N-Nitrosodimethylamine	0.350	0.0889	"	0.888	ND	39.4	10-126		31.9	30	Non-dir.
N-nitroso-di-n-propylamine	0.348	0.0889	"	0.888	ND	39.1	10-125		33.8	30	Non-dir.
N-Nitrosodiphenylamine	0.535	0.0889	"	0.888	ND	60.2	10-177		39.3	30	Non-dir.
Pentachlorophenol	0.205	0.0889	"	0.888	ND	23.1	10-153		67.5	30	Non-dir.
Phenanthrene	0.451	0.0889	"	0.888	ND	50.8	10-148		38.8	30	Non-dir.
Phenol	0.422	0.0889	"	0.888	ND	47.5	10-126		33.9	30	Non-dir.
Pyrene	0.484	0.0889	"	0.888	ND	54.5	10-165		33.6	30	Non-dir.
Pyridine	0.271	0.356	"	0.888	ND	30.5	10-83		40.5	30	Non-dir.
Surrogate: SURR: 2-Fluorophenol	0.880		"	1.78		49.5	20-108				
Surrogate: SURR: Phenol-d6	0.869		"	1.78		48.9	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.441		"	0.888		49.6	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.468		"	0.888		52.7	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.25		"	1.78		70.4	19-110				
Surrogate: SURR: Terphenyl-d14	0.499		"	0.888		56.2	24-116				



PFAS Target compounds by LC/MS-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
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Batch BL30041 - EPA 1633 Prep

Blank (BL30041-BLK1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	ND	0.174	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.197	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.197	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.180	"								
Perfluorooctanoic acid (PFOA)	ND	0.197	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.183	"								
Perfluorononanoic acid (PFNA)	ND	0.197	"								
Perfluorodecanoic acid (PFDA)	ND	0.197	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.197	"								
Perfluorododecanoic acid (PFDoA)	ND	0.197	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.197	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.197	"								
N-MeFOSAA	ND	0.197	"								
N-EtFOSAA	ND	0.197	"								
Perfluoropentanoic acid (PFPeA)	ND	0.394	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.197	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.197	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.190	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.748	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.756	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.787	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	0.350	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.394	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.394	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.394	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.185	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.738	"								
HFPO-DA (Gen-X)	ND	0.787	"								
11CL-PF3OUdS	ND	0.744	"								
9CL-PF3ONS	ND	0.736	"								
ADONA	ND	0.744	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.191	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.189	"								
3-Perfluoropropyl propanoic acid (FPPrPA)	ND	0.984	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.92	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.92	"								
N-MeFOSE	ND	1.97	"								
N-MeFOSA	ND	0.197	"								
N-EtFOSE	ND	1.97	"								
N-EtFOSA	ND	0.197	"								
Surrogate: M3PFBS	1.49		"	1.91		78.0	25-150				
Surrogate: M5PFHxA	2.25		"	2.05		110	25-150				
Surrogate: M4PFHpA	2.72		"	2.05		133	25-150				
Surrogate: M3PFHxS	2.50		"	1.94		129	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.15		"	2.05		105	25-150				
Surrogate: M6PFDA	1.03		"	1.02		101	25-150				
Surrogate: M7PFUDA	0.913		"	1.02		89.2	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL30041 - EPA 1633 Prep

Blank (BL30041-BLK1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.879		ug/kg wet	1.02		85.9	25-150				
Surrogate: M2PFTeDA	0.640		"	1.02		62.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.395		"	8.22		4.80	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.41		"	1.96		71.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.828		"	4.10		20.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.38		"	2.05		67.4	10-150				
Surrogate: d3-N-MeFOSAA	1.94		"	4.10		47.2	25-150				
Surrogate: d5-N-EtFOSAA	1.98		"	4.10		48.2	25-150				
Surrogate: M2-6:2 FTS	3.67		"	3.90		94.2	25-200				
Surrogate: M2-8:2 FTS	2.59		"	3.94		65.8	25-200				
Surrogate: M9PFNA	0.999		"	1.02		97.6	25-150				
Surrogate: M2-4:2 FTS	3.74		"	3.85		97.1	25-150				
Surrogate: d-N-MeFOSA	0.935		"	2.05		45.6	25-150				
Surrogate: d-N-EtFOSA	1.04		"	2.05		50.9	25-150				
Surrogate: M3HFPO-DA	10.1		"	8.22		123	25-150				
Surrogate: d9-N-EtFOSE	5.61		"	20.5		27.4	25-150				
Surrogate: d7-N-MeFOSE	8.68		"	20.5		42.3	25-150				

LCS (BL30041-BS1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	3.61	0.176	ug/kg wet	3.52		102	50-150				
Perfluorohexanoic acid (PFHxA)	3.43	0.199	"	3.98		86.4	50-150				
Perfluoroheptanoic acid (PFHpA)	3.38	0.199	"	3.98		85.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.60	0.182	"	3.64		99.0	50-150				
Perfluorooctanoic acid (PFOA)	3.57	0.199	"	3.98		89.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.79	0.185	"	3.70		103	50-150				
Perfluorononanoic acid (PFNA)	3.81	0.199	"	3.98		95.9	50-150				
Perfluorodecanoic acid (PFDA)	3.36	0.199	"	3.98		84.6	50-150				
Perfluoroundecanoic acid (PFUnA)	4.39	0.199	"	3.98		110	50-150				
Perfluorododecanoic acid (PFDoA)	3.76	0.199	"	3.98		94.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.44	0.199	"	3.98		112	50-150				
Perfluorotetradecanoic acid (PFTA)	4.30	0.199	"	3.98		108	50-150				
N-MeFOSAA	4.32	0.199	"	3.98		109	50-150				
N-EtFOSAA	4.14	0.199	"	3.98		104	50-150				
Perfluoropentanoic acid (PFPeA)	7.47	0.398	"	7.95		93.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.43	0.199	"	3.98		111	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.69	0.199	"	3.80		123	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.18	0.192	"	3.84		83.0	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.6	0.755	"	15.1		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.1	0.763	"	15.3		105	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.1	0.795	"	15.9		82.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.82	0.354	"	7.08		82.3	50-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	5.07	0.398	"	7.95		63.7	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.30	0.398	"	7.95		28.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	11.1	0.398	"	7.95		140	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.76	0.187	"	3.74		101	50-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>LCS (BL30041-BS1)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	13.7	0.746	ug/kg wet	14.9		91.9	50-150				
HFPO-DA (Gen-X)	6.36	0.795	"	7.95		80.0	50-150				
11CL-PF3OUdS	4.43	0.751	"	7.51		59.0	50-150				
9CL-PF3ONS	5.97	0.744	"	7.44		80.3	50-150				
ADONA	7.71	0.751	"	7.51		103	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.47	0.193	"	3.86		64.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.87	0.191	"	3.82		101	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	12.4	0.994	"	15.9		78.3	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	87.7	4.97	"	79.5		110	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	70.5	4.97	"	79.5		88.6	50-150				
N-MeFOSE	29.4	1.99	"	39.8		73.9	50-150				
N-MeFOSA	3.10	0.199	"	3.98		77.9	50-150				
N-EtFOSE	33.5	1.99	"	39.8		84.3	50-150				
N-EtFOSA	3.66	0.199	"	3.98		92.1	50-150				
Surrogate: M3PFBS	1.48		"	1.93		76.9	25-150				
Surrogate: M5PFHxA	2.24		"	2.07		108	25-150				
Surrogate: M4PFHpA	2.75		"	2.07		133	25-150				
Surrogate: M3PFHxS	2.50		"	1.96		127	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.29		"	2.07		111	25-150				
Surrogate: M6PFDA	1.01		"	1.03		98.1	25-150				
Surrogate: M7PFUdA	0.874		"	1.03		84.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.792		"	1.03		76.6	25-150				
Surrogate: M2PFTeDA	0.648		"	1.03		62.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.373		"	8.30		4.50	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.52		"	1.98		76.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.834		"	4.14		20.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.31		"	2.07		63.1	10-150				
Surrogate: d3-N-MeFOSAA	1.94		"	4.14		46.9	25-150				
Surrogate: d5-N-EtFOSAA	1.98		"	4.14		47.8	25-150				
Surrogate: M2-6:2 FTS	4.06		"	3.94		103	25-200				
Surrogate: M2-8:2 FTS	2.95		"	3.98		74.2	25-200				
Surrogate: M9PFNA	1.00		"	1.03		97.2	25-150				
Surrogate: M2-4:2 FTS	3.80		"	3.89		97.7	25-150				
Surrogate: d-N-MeFOSA	0.992		"	2.07		47.9	25-150				
Surrogate: d-N-EtFOSA	1.00		"	2.07		48.5	25-150				
Surrogate: M3HFPO-DA	9.56		"	8.30		115	25-150				
Surrogate: d9-N-EtFOSE	6.86		"	20.7		33.1	25-150				
Surrogate: d7-N-MeFOSE	9.03		"	20.7		43.6	25-150				





PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
<b>Batch BL30041 - EPA 1633 Prep</b>										
<b>LCS (BL30041-BS2)</b>										
Prepared: 12/01/2023 Analyzed: 12/03/2023										
Perfluorobutanesulfonic acid (PFBS)	0.907	0.175	ug/kg wet	0.698	130	50-150				
Perfluorohexanoic acid (PFHxA)	0.810	0.197	"	0.789	103	50-150				
Perfluoroheptanoic acid (PFHpA)	0.826	0.197	"	0.789	105	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.892	0.180	"	0.722	124	50-150				
Perfluorooctanoic acid (PFOA)	0.932	0.197	"	0.789	118	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.895	0.183	"	0.734	122	50-150				
Perfluorononanoic acid (PFNA)	0.867	0.197	"	0.789	110	50-150				
Perfluorodecanoic acid (PFDA)	0.806	0.197	"	0.789	102	50-150				
Perfluoroundecanoic acid (PFUnA)	0.965	0.197	"	0.789	122	50-150				
Perfluorododecanoic acid (PFDoA)	0.909	0.197	"	0.789	115	50-150				
Perfluorotridecanoic acid (PFTriDA)	0.967	0.197	"	0.789	123	50-150				
Perfluorotetradecanoic acid (PFTA)	0.826	0.197	"	0.789	105	50-150				
N-MeFOSAA	1.01	0.197	"	0.789	128	50-150				
N-EtFOSAA	0.897	0.197	"	0.789	114	50-150				
Perfluoropentanoic acid (PFPeA)	1.71	0.394	"	1.58	109	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	1.03	0.197	"	0.789	130	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	1.10	0.197	"	0.753	146	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.686	0.190	"	0.761	90.1	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.55	0.750	"	3.00	119	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.24	0.757	"	3.03	140	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.89	0.789	"	3.16	91.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.37	0.351	"	1.40	97.3	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.861	0.394	"	1.58	54.6	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.590	0.394	"	1.58	37.4	50-150				Low Bias
Perfluoro-5-oxahexanoic acid (PFMBA)	2.47	0.394	"	1.58	156	50-150				High Bias
Perfluoro-1-pentanesulfonate (PFPeS)	0.888	0.185	"	0.742	120	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	3.28	0.740	"	2.96	111	50-150				
HFPO-DA (Gen-X)	1.46	0.789	"	1.58	92.8	50-150				
11CL-PF3OUdS	1.35	0.746	"	1.49	90.3	50-150				
9CL-PF3ONS	1.78	0.738	"	1.48	120	50-150				
ADONA	2.30	0.746	"	1.49	154	50-150				High Bias
Perfluorododecanesulfonic acid (PFDoS)	0.630	0.191	"	0.765	82.4	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.845	0.189	"	0.757	112	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.986	"	3.16		50-150				Low Bias
3-Perfluoropentyl propanoic acid (FPePA)	24.6	4.93	"	15.8	156	50-150				High Bias
3-Perfluoroheptyl propanoic acid (FHpPA)	19.6	4.93	"	15.8	124	50-150				
N-MeFOSE	7.25	1.97	"	7.89	91.9	50-150				
N-MeFOSA	0.807	0.197	"	0.789	102	50-150				
N-EtFOSE	7.57	1.97	"	7.89	96.0	50-150				
N-EtFOSA	0.901	0.197	"	0.789	114	50-150				
Surrogate: M3PFBS	1.00		"	1.91	52.4	25-150				
Surrogate: M5PFHxA	1.67		"	2.06	81.4	25-150				
Surrogate: M4PFHpA	2.49		"	2.06	121	25-150				
Surrogate: M3PFHxS	2.37		"	1.95	122	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.04		"	2.06	99.1	25-150				
Surrogate: M6PFDA	0.911		"	1.03	88.8	25-150				
Surrogate: M7PFUDA	0.829		"	1.03	80.8	25-150				



**PFAS Target compounds by LC/MS-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
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**Batch BL30041 - EPA 1633 Prep**

**LCS (BL30041-BS2)**

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.768		ug/kg wet	1.03		74.9	25-150				
Surrogate: M2PFTeDA	0.664		"	1.03		64.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.281		"	8.23		3.41	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.45		"	1.97		73.7	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.523		"	4.11		12.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.26		"	2.06		61.2	10-150				
Surrogate: d3-N-MeFOSAA	2.08		"	4.11		50.5	25-150				
Surrogate: d5-N-EtFOSAA	2.01		"	4.11		49.0	25-150				
Surrogate: M2-6:2 FTS	3.67		"	3.91		93.9	25-200				
Surrogate: M2-8:2 FTS	2.70		"	3.94		68.5	25-200				
Surrogate: M9PFNA	0.974		"	1.03		94.9	25-150				
Surrogate: M2-4:2 FTS	3.22		"	3.86		83.4	25-150				
Surrogate: d-N-MeFOSA	0.994		"	2.06		48.3	25-150				
Surrogate: d-N-EtFOSA	0.896		"	2.06		43.6	25-150				
Surrogate: M3HFPO-DA	7.20		"	8.23		87.5	25-150				
Surrogate: d9-N-EtFOSE	8.22		"	20.6		40.0	25-150				
Surrogate: d7-N-MeFOSE	9.72		"	20.6		47.2	25-150				

**Matrix Spike (BL30041-MS1)**

\*Source sample: 23K1814-01 (Matrix Spike)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	4.49	0.193	ug/kg dry	3.87	ND	116	25-150				
Perfluorohexanoic acid (PFHxA)	4.37	0.219	"	4.37	ND	100	25-150				
Perfluoroheptanoic acid (PFHpA)	4.06	0.219	"	4.37	ND	92.8	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.17	0.200	"	4.00	ND	104	25-150				
Perfluorooctanoic acid (PFOA)	5.01	0.219	"	4.37	ND	115	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.60	0.203	"	4.07	ND	113	25-150				
Perfluorononanoic acid (PFNA)	4.47	0.219	"	4.37	ND	102	25-150				
Perfluorodecanoic acid (PFDA)	4.75	0.219	"	4.37	ND	109	25-150				
Perfluoroundecanoic acid (PFUnA)	5.22	0.219	"	4.37	ND	119	25-150				
Perfluorododecanoic acid (PFDoA)	4.83	0.219	"	4.37	ND	110	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.47	0.219	"	4.37	ND	125	25-150				
Perfluorotetradecanoic acid (PFTA)	4.86	0.219	"	4.37	ND	111	25-150				
N-MeFOSAA	5.32	0.219	"	4.37	ND	122	25-150				
N-EtFOSAA	5.13	0.219	"	4.37	ND	117	25-150				
Perfluoropentanoic acid (PFPeA)	9.20	0.437	"	8.74	ND	105	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.70	0.219	"	4.37	ND	130	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.86	0.219	"	4.17	ND	116	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.54	0.211	"	4.22	ND	108	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	18.9	0.831	"	16.6	ND	114	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	21.3	0.839	"	16.8	ND	127	25-150				
Perfluoro-n-butanoic acid (PFBA)	14.7	0.874	"	17.5	ND	84.2	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.88	0.389	"	7.78	ND	88.4	25-150				
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	4.44	0.437	"	8.74	ND	50.8	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	3.14	0.437	"	8.74	ND	35.9	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	13.4	0.437	"	8.74	ND	153	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.06	0.205	"	4.11	ND	98.7	25-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Matrix Spike (BL30041-MS1)</b>	*Source sample: 23K1814-01 (Matrix Spike)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.5	0.820	ug/kg dry	16.4	ND	107	25-150				
HFPO-DA (Gen-X)	6.36	0.874	"	8.74	ND	72.7	25-150				
11CL-PF3OUdS	13.5	0.826	"	8.26	ND	163	25-150	High Bias			
9CL-PF3ONS	16.7	0.817	"	8.17	ND	204	25-150	High Bias			
ADONA	14.3	0.826	"	8.26	ND	173	25-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	3.90	0.212	"	4.24	ND	92.0	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	5.40	0.210	"	4.20	ND	129	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	1.09	"	17.5	ND	90.4	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	142	5.46	"	87.4	ND	162	25-150	High Bias			
3-Perfluoroheptyl propanoic acid (FHpPA)	146	5.46	"	87.4	ND	167	25-150	High Bias			
N-MeFOSE	37.5	2.19	"	43.7	ND	85.8	25-150				
N-MeFOSA	3.99	0.219	"	4.37	ND	91.3	25-150				
N-EtFOSE	39.9	2.19	"	43.7	ND	91.4	25-150				
N-EtFOSA	4.00	0.219	"	4.37	ND	91.6	25-150				
Surrogate: M3PFBS	0.965		"	2.12		45.5	25-150				
Surrogate: M5PFHxA	1.75		"	2.28		76.9	25-150				
Surrogate: M4PFHpA	2.98		"	2.28		131	25-150				
Surrogate: M3PFHxS	3.12		"	2.16		144	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.43		"	2.28		107	25-150				
Surrogate: M6PFDA	1.36		"	1.14		120	25-150				
Surrogate: M7PFUdA	1.44		"	1.14		126	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.35		"	1.14		119	25-150				
Surrogate: M2PFTeDA	1.02		"	1.14		90.0	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.290		"	9.13		3.18	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.28		"	2.18		105	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.486		"	4.55		10.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.86		"	2.28		81.8	10-150				
Surrogate: d3-N-MeFOSAA	3.18		"	4.55		69.8	25-150				
Surrogate: d5-N-EtFOSAA	3.29		"	4.55		72.4	25-150				
Surrogate: M2-6:2 FTS	5.17		"	4.33		119	25-200				
Surrogate: M2-8:2 FTS	5.01		"	4.37		115	25-200				
Surrogate: M9PFNA	1.42		"	1.14		125	25-150				
Surrogate: M2-4:2 FTS	3.26		"	4.27		76.4	25-150				
Surrogate: d-N-MeFOSA	1.71		"	2.28		74.9	25-150				
Surrogate: d-N-EtFOSA	1.90		"	2.28		83.3	25-150				
Surrogate: M3HFPO-DA	7.22		"	9.13		79.1	25-150				
Surrogate: d9-N-EtFOSE	11.2		"	22.8		49.1	25-150				
Surrogate: d7-N-MeFOSE	13.8		"	22.8		60.5	25-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Matrix Spike Dup (BL30041-MSD1)</b>	*Source sample: 23K1814-01 (Matrix Spike Dup)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
Perfluorobutanesulfonic acid (PFBS)	3.99	0.193	ug/kg dry	3.86	ND	103	25-150		11.8	35	
Perfluorohexanoic acid (PFHxA)	3.97	0.218	"	4.36	ND	90.9	25-150		9.68	35	
Perfluoroheptanoic acid (PFHpA)	3.73	0.218	"	4.36	ND	85.5	25-150		8.34	35	
Perfluorohexanesulfonic acid (PFHxS)	4.06	0.200	"	3.99	ND	102	25-150		2.61	35	
Perfluorooctanoic acid (PFOA)	4.44	0.218	"	4.36	ND	102	25-150		12.1	35	
Perfluorooctanesulfonic acid (PFOS)	4.42	0.203	"	4.06	ND	109	25-150		4.00	35	
Perfluorononanoic acid (PFNA)	4.41	0.218	"	4.36	ND	101	25-150		1.36	35	
Perfluorodecanoic acid (PFDA)	4.11	0.218	"	4.36	ND	94.2	25-150		14.4	35	
Perfluoroundecanoic acid (PFUnA)	5.22	0.218	"	4.36	ND	120	25-150		0.0203	35	
Perfluorododecanoic acid (PFDoA)	4.44	0.218	"	4.36	ND	102	25-150		8.49	35	
Perfluorotridecanoic acid (PFTriDA)	4.88	0.218	"	4.36	ND	112	25-150		11.6	35	
Perfluorotetradecanoic acid (PFTA)	4.73	0.218	"	4.36	ND	108	25-150		2.65	35	
N-MeFOSAA	4.80	0.218	"	4.36	ND	110	25-150		10.3	35	
N-EtFOSAA	4.57	0.218	"	4.36	ND	105	25-150		11.7	35	
Perfluoropentanoic acid (PFPeA)	8.44	0.436	"	8.73	ND	96.7	25-150		8.63	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.83	0.218	"	4.36	ND	111	25-150		16.6	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.85	0.218	"	4.17	ND	116	25-150		0.155	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.49	0.211	"	4.21	ND	107	25-150		1.22	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	17.9	0.829	"	16.6	ND	108	25-150		5.11	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	18.6	0.838	"	16.8	ND	111	25-150		13.8	35	
Perfluoro-n-butanoic acid (PFBA)	14.9	0.873	"	17.5	ND	85.4	25-150		1.22	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.74	0.388	"	7.77	ND	86.8	25-150		1.97	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.93	0.436	"	8.73	ND	67.9	25-150		28.7	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.88	0.436	"	8.73	ND	32.9	25-150		8.70	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	12.8	0.436	"	8.73	ND	147	25-150		4.56	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.06	0.205	"	4.10	ND	99.0	25-150		0.0774	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	15.5	0.818	"	16.4	ND	94.9	25-150		12.1	30	
HFPO-DA (Gen-X)	7.36	0.873	"	8.73	ND	84.3	25-150		14.6	30	
11CL-PF3OUdS	8.15	0.825	"	8.25	ND	98.9	25-150		49.2	30	Non-dir.
9CL-PF3ONS	10.2	0.816	"	8.16	ND	125	25-150		48.4	30	Non-dir.
ADONA	8.75	0.825	"	8.25	ND	106	25-150		47.9	30	Non-dir.
Perfluorododecanesulfonic acid (PFDoS)	3.31	0.212	"	4.23	ND	78.2	25-150		16.4	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	5.19	0.209	"	4.19	ND	124	25-150		4.01	30	
3-Perfluoropropyl propanoic acid (FPrPA)	12.3	1.09	"	17.5	ND	70.8	25-150		24.5	30	
3-Perfluoropentyl propanoic acid (FPePA)	96.2	5.45	"	87.3	ND	110	25-150		38.4	30	Non-dir.
3-Perfluoroheptyl propanoic acid (FHpPA)	94.9	5.45	"	87.3	ND	109	25-150		42.7	30	Non-dir.
N-MeFOSE	31.1	2.18	"	43.6	ND	71.3	25-150		18.6	30	
N-MeFOSA	3.51	0.218	"	4.36	ND	80.4	25-150		12.8	30	
N-EtFOSE	36.8	2.18	"	43.6	ND	84.2	25-150		8.32	30	
N-EtFOSA	3.90	0.218	"	4.36	ND	89.4	25-150		2.64	30	
Surrogate: M3PFBS	1.62		"	2.12		76.5	25-150				
Surrogate: M5PFHxA	2.39		"	2.27		105	25-150				
Surrogate: M4PFHpA	2.91		"	2.27		128	25-150				
Surrogate: M3PFHxS	2.84		"	2.15		132	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.48		"	2.27		109	25-150				
Surrogate: M6PFDA	1.51		"	1.13		133	25-150				
Surrogate: M7PFUdA	1.50		"	1.13		132	25-150				



**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	

**Batch BL30041 - EPA 1633 Prep**

**Matrix Spike Dup (BL30041-MSD1)** \*Source sample: 23K1814-01 (Matrix Spike Dup) Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.40		ug/kg dry	1.13		124	25-150		
Surrogate: M2PFTeDA	1.12		"	1.13		98.4	10-150		
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.498		"	9.11		5.47	25-150		
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.34		"	2.18		108	25-150		
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.896		"	4.54		19.7	25-150		
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.16		"	2.27		95.2	10-150		
Surrogate: d3-N-MeFOSAA	3.72		"	4.54		82.0	25-150		
Surrogate: d5-N-EtFOSAA	3.90		"	4.54		85.8	25-150		
Surrogate: M2-6:2 FTS	4.68		"	4.32		108	25-200		
Surrogate: M2-8:2 FTS	4.87		"	4.36		112	25-200		
Surrogate: M9PFNA	1.37		"	1.13		121	25-150		
Surrogate: M2-4:2 FTS	4.02		"	4.26		94.4	25-150		
Surrogate: d-N-MeFOSA	1.89		"	2.27		83.0	25-150		
Surrogate: d-N-EtFOSA	1.81		"	2.27		79.8	25-150		
Surrogate: M3HFPO-DA	10.6		"	9.11		116	25-150		
Surrogate: d9-N-EtFOSE	11.1		"	22.7		48.6	25-150		
Surrogate: d7-N-MeFOSE	13.4		"	22.7		59.1	25-150		

**Batch BL30044 - EPA 1633 Prep**

**Blank (BL30044-BLK1)** Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L
Perfluorohexanoic acid (PFHxA)	ND	4.00	"
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"
Perfluorooctanoic acid (PFOA)	ND	4.00	"
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"
Perfluorononanoic acid (PFNA)	ND	4.00	"
Perfluorodecanoic acid (PFDA)	ND	4.00	"
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"
Perfluorododecanoic acid (PFDoA)	ND	4.00	"
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"
N-MeFOSAA	ND	4.00	"
N-EtFOSAA	ND	4.00	"
Perfluoropentanoic acid (PFPeA)	ND	8.00	"
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	7.12	"
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	8.00	"
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"



**PFAS Target compounds by LC/MS-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
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**Batch BL30044 - EPA 1633 Prep**

**Blank (BL30044-BLK1)**

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	ng/L								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
<i>Surrogate: M3PFBS</i>	50.9		"	38.8		131	25-150				
<i>Surrogate: M5PFHxA</i>	57.3		"	41.7		138	25-150				
<i>Surrogate: M4PFHpA</i>	66.0		"	41.7		158	25-150				
<i>Surrogate: M3PFHxS</i>	60.9		"	39.5		154	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	47.2		"	41.7		113	25-150				
<i>Surrogate: M6PFDA</i>	30.5		"	20.8		147	25-150				
<i>Surrogate: M7PFUdA</i>	27.1		"	20.8		130	25-150				
<i>Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)</i>	23.2		"	20.8		111	25-150				
<i>Surrogate: M2PFTeDA</i>	16.4		"	20.8		79.1	10-150				
<i>Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)</i>	83.3		"	167		49.9	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	49.3		"	39.9		124	25-150				
<i>Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)</i>	121		"	83.3		146	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)</i>	42.8		"	41.7		103	10-150				
<i>Surrogate: d3-N-MeFOSAA</i>	72.1		"	83.3		86.6	25-150				
<i>Surrogate: d5-N-EtFOSAA</i>	122		"	83.3		146	25-150				
<i>Surrogate: M2-6:2 FTS</i>	102		"	79.2		129	25-200				
<i>Surrogate: M2-8:2 FTS</i>	105		"	80.0		131	25-200				
<i>Surrogate: M9PFNA</i>	24.9		"	20.8		120	25-150				
<i>Surrogate: M2-4:2 FTS</i>	106		"	78.2		135	25-150				
<i>Surrogate: d-N-MeFOSA</i>	13.0		"	41.7		31.3	25-150				
<i>Surrogate: d-N-EtFOSA</i>	8.86		"	41.7		21.3	25-150				
<i>Surrogate: M3HFPO-DA</i>	274		"	167		164	25-150				
<i>Surrogate: d9-N-EtFOSE</i>	187		"	417		44.8	25-150				
<i>Surrogate: d7-N-MeFOSE</i>	213		"	417		51.0	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result	%REC	Limit						
<b>Batch BL30044 - EPA 1633 Prep</b>													
<b>LCS (BL30044-BS1)</b>													
Prepared: 12/01/2023 Analyzed: 12/03/2023													
Perfluorobutanesulfonic acid (PFBS)	87.3	3.54	ng/L	70.8		123		50-150					
Perfluorohexanoic acid (PFHxA)	81.9	4.00	"	80.0		102		50-150					
Perfluoroheptanoic acid (PFHpA)	69.7	4.00	"	80.0		87.2		50-150					
Perfluorohexanesulfonic acid (PFHxS)	76.0	3.66	"	73.2		104		50-150					
Perfluorooctanoic acid (PFOA)	89.8	4.00	"	80.0		112		50-150					
Perfluorooctanesulfonic acid (PFOS)	86.4	3.72	"	74.4		116		50-150					
Perfluorononanoic acid (PFNA)	78.5	4.00	"	80.0		98.2		50-150					
Perfluorodecanoic acid (PFDA)	86.4	4.00	"	80.0		108		50-150					
Perfluoroundecanoic acid (PFUnA)	101	4.00	"	80.0		127		50-150					
Perfluorododecanoic acid (PFDoA)	101	4.00	"	80.0		127		50-150					
Perfluorotridecanoic acid (PFTriDA)	93.5	4.00	"	80.0		117		50-150					
Perfluorotetradecanoic acid (PFTA)	90.7	4.00	"	80.0		113		50-150					
N-MeFOSAA	104	4.00	"	80.0		130		50-150					
N-EtFOSAA	97.3	4.00	"	80.0		122		50-150					
Perfluoropentanoic acid (PFPeA)	173	8.00	"	160		108		50-150					
Perfluoro-1-octanesulfonamide (FOSA)	92.7	4.00	"	80.0		116		50-150					
Perfluoro-1-heptanesulfonic acid (PFHpS)	89.1	3.82	"	76.4		117		50-150					
Perfluoro-1-decanesulfonic acid (PFDS)	87.8	3.86	"	77.2		114		50-150					
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	362	15.2	"	304		119		50-150					
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	391	15.4	"	307		127		50-150					
Perfluoro-n-butanoic acid (PFBA)	349	16.0	"	320		109		50-150					
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	139	7.12	"	142		97.4		50-150					
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	153	8.00	"	160		95.6		50-150					
Perfluoro-4-oxapentanoic acid (PFMPA)	113	8.00	"	160		70.6		50-150					
Perfluoro-5-oxahexanoic acid (PFMBA)	156	8.00	"	160		97.4		50-150					
Perfluoro-1-pentanesulfonate (PFPeS)	76.5	3.76	"	75.2		102		50-150					
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	310	15.0	"	300		103		50-150					
HFPO-DA (Gen-X)	147	16.0	"	160		92.0		50-150					
11CL-PF3OUdS	124	15.1	"	151		82.1		50-150					
9CL-PF3ONS	162	15.0	"	150		108		50-150					
ADONA	140	15.1	"	151		92.7		50-150					
Perfluorododecanesulfonic acid (PFDoS)	60.5	3.88	"	77.6		77.9		50-150					
Perfluoro-1-nonanesulfonic acid (PFNS)	100	3.84	"	76.8		130		50-150					
3-Perfluoropropyl propanoic acid (FPPrPA)	348	10.0	"	320		109		50-150					
3-Perfluoropentyl propanoic acid (FPePA)	1720	50.0	"	1600		108		50-150					
3-Perfluoroheptyl propanoic acid (FHpPA)	1900	50.0	"	1600		119		50-150					
N-MeFOSE	670	40.0	"	800		83.8		50-150					
N-MeFOSA	76.9	4.00	"	80.0		96.1		50-150					
N-EtFOSE	851	40.0	"	800		106		50-150					
N-EtFOSA	78.5	4.00	"	80.0		98.2		50-150					
Surrogate: M3PFBS	45.2		"	38.8		116		25-150					
Surrogate: M5PFHxA	58.9		"	41.7		141		25-150					
Surrogate: M4PFHpA	64.1		"	41.7		154		25-150					
Surrogate: M3PFHxS	58.9		"	39.5		149		25-150					
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	50.5		"	41.7		121		25-150					
Surrogate: M6PFDA	30.0		"	20.8		144		25-150					
Surrogate: M7PFUDA	27.2		"	20.8		131		25-150					





PFAS Target compounds by LC/MS-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
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Batch BL30044 - EPA 1633 Prep

LCS (BL30044-BS1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	23.7		ng/L	20.8		114	25-150				
Surrogate: M2PFTeDA	18.7		"	20.8		89.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	66.5		"	167		39.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.3		"	39.9		124	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	122		"	83.3		147	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	40.0		"	41.7		96.0	10-150				
Surrogate: d3-N-MeFOSAA	71.4		"	83.3		85.7	25-150				
Surrogate: d5-N-EtFOSAA	74.0		"	83.3		88.9	25-150				
Surrogate: M2-6:2 FTS	99.3		"	79.2		125	25-200				
Surrogate: M2-8:2 FTS	92.9		"	80.0		116	25-200				
Surrogate: M9PFNA	28.4		"	20.8		137	25-150				
Surrogate: M2-4:2 FTS	93.5		"	78.2		120	25-150				
Surrogate: d-N-MeFOSA	12.6		"	41.7		30.3	25-150				
Surrogate: d-N-EtFOSA	7.81		"	41.7		18.7	25-150				
Surrogate: M3HFPO-DA	277		"	167		166	25-150				
Surrogate: d9-N-EtFOSE	44.5		"	417		10.7	25-150				
Surrogate: d7-N-MeFOSE	203		"	417		48.8	25-150				

LCS (BL30044-BS2)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	16.2	3.54	ng/L	14.2		114	50-150				
Perfluorohexanoic acid (PFHxA)	16.2	4.00	"	16.0		101	50-150				
Perfluoroheptanoic acid (PFHpA)	11.6	4.00	"	16.0		72.5	50-150				
Perfluorohexanesulfonic acid (PFHxS)	16.3	3.66	"	14.6		111	50-150				
Perfluorooctanoic acid (PFOA)	18.2	4.00	"	16.0		114	50-150				
Perfluorooctanesulfonic acid (PFOS)	19.9	3.72	"	14.9		134	50-150				
Perfluorononanoic acid (PFNA)	15.9	4.00	"	16.0		99.6	50-150				
Perfluorodecanoic acid (PFDA)	14.6	4.00	"	16.0		91.3	50-150				
Perfluoroundecanoic acid (PFUnA)	18.4	4.00	"	16.0		115	50-150				
Perfluorododecanoic acid (PFDoA)	17.0	4.00	"	16.0		106	50-150				
Perfluorotridecanoic acid (PFTrDA)	21.5	4.00	"	16.0		134	50-150				
Perfluorotetradecanoic acid (PFTA)	16.9	4.00	"	16.0		106	50-150				
N-MeFOSAA	19.7	4.00	"	16.0		123	50-150				
N-EtFOSAA	17.8	4.00	"	16.0		111	50-150				
Perfluoropentanoic acid (PFPeA)	32.9	8.00	"	32.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	19.6	4.00	"	16.0		123	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	18.6	3.82	"	15.3		122	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	17.8	3.86	"	15.4		115	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	76.3	15.2	"	60.8		125	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	75.8	15.4	"	61.4		123	50-150				
Perfluoro-n-butanoic acid (PFBA)	67.0	16.0	"	64.0		105	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	27.4	7.12	"	28.5		96.0	50-150				
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	28.4	8.00	"	32.0		88.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	25.5	8.00	"	32.0		79.8	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	29.4	8.00	"	32.0		92.0	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	14.8	3.76	"	15.0		98.7	50-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>LCS (BL30044-BS2)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	64.5	15.0	ng/L	60.0		107	50-150				
HFPO-DA (Gen-X)	29.9	16.0	"	32.0		93.4	50-150				
11CL-PF3OUdS	23.2	15.1	"	30.2		76.7	50-150				
9CL-PF3ONS	34.1	15.0	"	29.9		114	50-150				
ADONA	27.9	15.1	"	30.2		92.3	50-150				
Perfluorododecanesulfonic acid (PFDoS)	10.2	3.88	"	15.5		65.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	20.1	3.84	"	15.4		131	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	71.4	10.0	"	64.0		111	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	330	50.0	"	320		103	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	374	50.0	"	320		117	50-150				
N-MeFOSE	120	40.0	"	160		75.1	50-150				
N-MeFOSA	11.5	4.00	"	16.0		71.9	50-150				
N-EtFOSE	174	40.0	"	160		109	50-150				
N-EtFOSA	15.3	4.00	"	16.0		95.6	50-150				
Surrogate: M3PFBS	51.4		"	38.8		132	25-150				
Surrogate: M5PFHxA	58.2		"	41.7		140	25-150				
Surrogate: M4PFHpA	69.7		"	41.7		167	25-150				
Surrogate: M3PFHxS	64.1		"	39.5		162	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	48.5		"	41.7		116	25-150				
Surrogate: M6PFDA	32.2		"	20.8		155	25-150				
Surrogate: M7PFUdA	30.7		"	20.8		148	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	26.2		"	20.8		126	25-150				
Surrogate: M2PFTeDA	15.0		"	20.8		72.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	88.4		"	167		52.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.8		"	39.9		112	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	123		"	83.3		148	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	37.5		"	41.7		90.0	10-150				
Surrogate: d3-N-MeFOSAA	71.5		"	83.3		85.8	25-150				
Surrogate: d5-N-EtFOSAA	69.5		"	83.3		83.5	25-150				
Surrogate: M2-6:2 FTS	103		"	79.2		130	25-200				
Surrogate: M2-8:2 FTS	100		"	80.0		126	25-200				
Surrogate: M9PFNA	28.9		"	20.8		139	25-150				
Surrogate: M2-4:2 FTS	104		"	78.2		133	25-150				
Surrogate: d-N-MeFOSA	15.0		"	41.7		35.9	25-150				
Surrogate: d-N-EtFOSA	7.82		"	41.7		18.7	25-150				
Surrogate: M3HFPO-DA	270		"	167		162	25-150				
Surrogate: d9-N-EtFOSE	133		"	417		31.8	25-150				
Surrogate: d7-N-MeFOSE	166		"	417		39.8	25-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>Duplicate (BL30044-DUP1)</b>	*Source sample: 23K1796-03 (Duplicate)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
Perfluorobutanesulfonic acid (PFBS)	0.622	1.60	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	1.81	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	1.81	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.65	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	1.81	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.68	"		ND					30	
Perfluorononanoic acid (PFNA)	14.0	1.81	"		11.4				20.8	30	
Perfluorodecanoic acid (PFDA)	ND	1.81	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.81	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.81	"		ND					30	
Perfluorotridecanoic acid (PFTriDA)	ND	1.81	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.81	"		ND					30	
N-MeFOSAA	ND	1.81	"		ND					30	
N-EtFOSAA	ND	1.81	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	3.62	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.81	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.73	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.75	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	6.87	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	6.95	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	7.23	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.22	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.62	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.62	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	0.366	3.62	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.70	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	6.78	"		ND					30	
HFPO-DA (Gen-X)	ND	7.23	"		ND					30	
11CL-PF3OUdS	ND	6.84	"		ND					30	
9CL-PF3ONS	ND	6.76	"		ND					30	
ADONA	ND	6.84	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.75	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.74	"		ND					30	
3-Perfluoropropyl propanoic acid (FPPrPA)	ND	4.52	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	22.6	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	22.6	"		ND					30	
N-MeFOSE	ND	18.1	"		ND					30	
N-MeFOSA	ND	1.81	"		ND					30	
N-EtFOSE	ND	18.1	"		ND					30	
N-EtFOSA	ND	1.81	"		ND					30	
Surrogate: M3PFBS	18.8		"	17.5		107	25-150				
Surrogate: M5PFHxA	27.2		"	18.9		144	25-150				
Surrogate: M4PFHpA	33.7		"	18.9		179	25-150				
Surrogate: M3PFHxS	29.9		"	17.9		167	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	27.2		"	18.9		144	25-150				
Surrogate: M6PFDA	13.5		"	9.41		143	25-150				
Surrogate: M7PFUdA	12.0		"	9.41		127	25-150				



**PFAS Target compounds by LC/MS-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
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>Duplicate (BL30044-DUP1)</b>	<b>*Source sample: 23K1796-03 (Duplicate)</b>						<b>Prepared: 12/01/2023 Analyzed: 12/03/2023</b>				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	7.98		ng/L	9.41		84.9	25-150				
Surrogate: M2PFTeDA	2.11		"	9.41		22.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.638		"	75.5		0.845	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	22.5		"	18.0		125	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	2.42		"	37.7		6.41	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	22.4		"	18.9		119	10-150				
Surrogate: d3-N-MeFOSAA	29.0		"	37.7		77.0	25-150				
Surrogate: d5-N-EtFOSAA	37.7		"	37.7		100	25-150				
Surrogate: M2-6:2 FTS	49.0		"	35.8		137	25-200				
Surrogate: M2-8:2 FTS	45.2		"	36.2		125	25-200				
Surrogate: M9PFNA	0.00		"	9.41			25-150				
Surrogate: M2-4:2 FTS	41.6		"	35.4		118	25-150				
Surrogate: d-N-MeFOSA	13.4		"	18.9		71.3	25-150				
Surrogate: d-N-EtFOSA	12.5		"	18.9		66.3	25-150				
Surrogate: M3HFPO-DA	118		"	75.5		157	25-150				
Surrogate: d9-N-EtFOSE	30.9		"	189		16.4	25-150				
Surrogate: d7-N-MeFOSE	65.2		"	189		34.6	25-150				



**Organochlorine Pesticides by GC/ECD - 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
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**Batch BL30289 - EPA 3550C**

**Blank (BL30289-BLK1)**

Prepared & Analyzed: 12/06/2023

4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								

Surrogate: Decachlorobiphenyl	0.0456		"	0.0664		68.6	30-150				
Surrogate: Tetrachloro-m-xylene	0.0314		"	0.0664		47.2	30-150				

**Blank (BL30289-BLK2)**

Prepared: 12/06/2023 Analyzed: 12/07/2023

4,4'-DDD	ND	0.000329	mg/kg wet								
4,4'-DDE	ND	0.000329	"								
4,4'-DDT	ND	0.000329	"								
Aldrin	ND	0.000329	"								
alpha-BHC	ND	0.000329	"								
alpha-Chlordane	ND	0.000329	"								
beta-BHC	ND	0.000329	"								
delta-BHC	ND	0.000329	"								
Dieldrin	ND	0.000329	"								
Endosulfan I	ND	0.000329	"								
Endosulfan II	ND	0.000329	"								
Endosulfan sulfate	ND	0.000329	"								
Endrin	ND	0.000329	"								
Endrin aldehyde	ND	0.000329	"								
Endrin ketone	ND	0.000329	"								
gamma-BHC (Lindane)	ND	0.000329	"								
gamma-Chlordane	ND	0.000329	"								
Heptachlor	ND	0.000329	"								
Heptachlor epoxide	ND	0.000329	"								
Methoxychlor	ND	0.000329	"								
Toxaphene	ND	0.0329	"								
Chlordane, total	ND	0.00658	"								

Surrogate: Decachlorobiphenyl	0.0249		"	0.0664		37.5	30-150				
Surrogate: Tetrachloro-m-xylene	0.0306		"	0.0664		46.0	30-150				



**Organochlorine Pesticides by GC/ECD - 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
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**Batch BL30289 - EPA 3550C**

**LCS (BL30289-BS1)**

Prepared & Analyzed: 12/06/2023

4,4'-DDD	0.0237	0.00164	mg/kg wet	0.0332		71.3	40-140				
4,4'-DDE	0.0248	0.00164	"	0.0332		74.7	40-140				
4,4'-DDT	0.0235	0.00164	"	0.0332		70.7	40-140				
Aldrin	0.0242	0.00164	"	0.0332		72.9	40-140				
alpha-BHC	0.0229	0.00164	"	0.0332		69.0	40-140				
alpha-Chlordane	0.0246	0.00164	"	0.0332		74.1	40-140				
beta-BHC	0.0254	0.00164	"	0.0332		76.6	40-140				
delta-BHC	0.0241	0.00164	"	0.0332		72.7	40-140				
Dieldrin	0.0238	0.00164	"	0.0332		71.6	40-140				
Endosulfan I	0.0255	0.00164	"	0.0332		76.7	40-140				
Endosulfan II	0.0267	0.00164	"	0.0332		80.4	40-140				
Endosulfan sulfate	0.0268	0.00164	"	0.0332		80.7	40-140				
Endrin	0.0236	0.00164	"	0.0332		71.2	40-140				
Endrin aldehyde	0.0273	0.00164	"	0.0332		82.2	40-140				
Endrin ketone	0.0255	0.00164	"	0.0332		76.8	40-140				
gamma-BHC (Lindane)	0.0229	0.00164	"	0.0332		69.0	40-140				
gamma-Chlordane	0.0241	0.00164	"	0.0332		72.5	40-140				
Heptachlor	0.0227	0.00164	"	0.0332		68.2	40-140				
Heptachlor epoxide	0.0243	0.00164	"	0.0332		73.0	40-140				
Methoxychlor	0.0268	0.00164	"	0.0332		80.6	40-140				
Surrogate: Decachlorobiphenyl	0.0461		"	0.0664		69.4	30-150				
Surrogate: Tetrachloro-m-xylene	0.0316		"	0.0664		47.5	30-150				

**LCS (BL30289-BS2)**

Prepared: 12/06/2023 Analyzed: 12/07/2023

4,4'-DDD	ND	0.000329	mg/kg wet				40-140				
4,4'-DDE	ND	0.000329	"				40-140				
4,4'-DDT	ND	0.000329	"				40-140				
Aldrin	ND	0.000329	"				40-140				
alpha-BHC	ND	0.000329	"				40-140				
alpha-Chlordane	ND	0.000329	"				40-140				
beta-BHC	ND	0.000329	"				40-140				
delta-BHC	ND	0.000329	"				40-140				
Dieldrin	ND	0.000329	"				40-140				
Endosulfan I	ND	0.000329	"				40-140				
Endosulfan II	ND	0.000329	"				40-140				
Endosulfan sulfate	ND	0.000329	"				40-140				
Endrin	ND	0.000329	"				40-140				
Endrin aldehyde	ND	0.000329	"				40-140				
Endrin ketone	ND	0.000329	"				40-140				
gamma-BHC (Lindane)	ND	0.000329	"				40-140				
gamma-Chlordane	ND	0.000329	"				40-140				
Heptachlor	ND	0.000329	"				40-140				
Heptachlor epoxide	ND	0.000329	"				40-140				
Methoxychlor	ND	0.000329	"				40-140				
Surrogate: Decachlorobiphenyl	0.0299		"	0.0664		45.0	30-150				
Surrogate: Tetrachloro-m-xylene	0.0355		"	0.0664		53.5	30-150				



**Organochlorine Pesticides by GC/ECD - 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
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**Batch BL30289 - EPA 3550C**

<b>Matrix Spike (BL30289-MS1)</b>	<b>*Source sample: 23L0133-01 (Matrix Spike)</b>						<b>Prepared &amp; Analyzed: 12/06/2023</b>				
4,4'-DDD	0.0371	0.00201	mg/kg dry	0.0407	ND	91.3	30-150				
4,4'-DDE	0.0362	0.00201	"	0.0407	ND	89.1	30-150				
4,4'-DDT	0.0544	0.00201	"	0.0407	ND	134	30-150				
Aldrin	0.0341	0.00201	"	0.0407	ND	83.9	30-150				
alpha-BHC	0.0321	0.00201	"	0.0407	ND	79.0	30-150				
alpha-Chlordane	0.0423	0.00201	"	0.0407	0.00306	96.5	30-150				
beta-BHC	0.0343	0.00201	"	0.0407	ND	84.4	30-150				
delta-BHC	0.0351	0.00201	"	0.0407	ND	86.4	30-150				
Dieldrin	0.0347	0.00201	"	0.0407	ND	85.4	30-150				
Endosulfan I	0.0354	0.00201	"	0.0407	ND	86.9	30-150				
Endosulfan II	0.0421	0.00201	"	0.0407	ND	104	30-150				
Endosulfan sulfate	0.0387	0.00201	"	0.0407	ND	95.2	30-150				
Endrin	0.0358	0.00201	"	0.0407	ND	88.0	30-150				
Endrin aldehyde	0.0674	0.00201	"	0.0407	ND	166	30-150	High Bias			
Endrin ketone	0.0375	0.00201	"	0.0407	ND	92.2	30-150				
gamma-BHC (Lindane)	0.0320	0.00201	"	0.0407	ND	78.8	30-150				
gamma-Chlordane	0.0384	0.00201	"	0.0407	0.00389	85.0	30-150				
Heptachlor	0.0326	0.00201	"	0.0407	ND	80.3	30-150				
Heptachlor epoxide	0.0350	0.00201	"	0.0407	ND	86.1	30-150				
Methoxychlor	0.0561	0.00201	"	0.0407	ND	138	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0633</i>		<i>"</i>	<i>0.0813</i>		<i>77.8</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0448</i>		<i>"</i>	<i>0.0813</i>		<i>55.1</i>	<i>30-150</i>				

<b>Matrix Spike (BL30289-MS2)</b>	<b>*Source sample: 23L0133-01 (Matrix Spike)</b>						<b>Prepared: 12/06/2023 Analyzed: 12/07/2023</b>				
4,4'-DDD	ND	0.000403	mg/kg dry		ND		30-150				
4,4'-DDE	ND	0.000403	"		0.00157		30-150				
4,4'-DDT	ND	0.000403	"		0.00108		30-150				
Aldrin	ND	0.000403	"		ND		30-150				
alpha-BHC	ND	0.000403	"		ND		30-150				
alpha-Chlordane	ND	0.000403	"		0.00250		30-150				
beta-BHC	ND	0.000403	"		ND		30-150				
delta-BHC	ND	0.000403	"		ND		30-150				
Dieldrin	ND	0.000403	"		0.000945		30-150				
Endosulfan I	ND	0.000403	"		ND		30-150				
Endosulfan II	ND	0.000403	"		ND		30-150				
Endosulfan sulfate	ND	0.000403	"		ND		30-150				
Endrin	ND	0.000403	"		ND		30-150				
Endrin aldehyde	ND	0.000403	"		ND		30-150				
Endrin ketone	ND	0.000403	"		ND		30-150				
gamma-BHC (Lindane)	ND	0.000403	"		ND		30-150				
gamma-Chlordane	ND	0.000403	"		0.00318		30-150				
Heptachlor	ND	0.000403	"		ND		30-150				
Heptachlor epoxide	ND	0.000403	"		0.000764		30-150				
Methoxychlor	ND	0.000403	"		ND		30-150				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0346</i>		<i>"</i>	<i>0.0813</i>		<i>42.5</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0813</i>		<i>48.0</i>	<i>30-150</i>				





**Organochlorine Pesticides by GC/ECD - 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	
<b>Batch BL30289 - EPA 3550C</b>												
<b>Matrix Spike Dup (BL30289-MSD1)</b>		*Source sample: 23L0133-01 (Matrix Spike Dup)					Prepared & Analyzed: 12/06/2023					
4,4'-DDD	0.0377	0.00201	mg/kg dry	0.0407	ND	92.7	30-150		1.46	30		
4,4'-DDE	0.0387	0.00201	"	0.0407	ND	95.3	30-150		6.71	30		
4,4'-DDT	0.0382	0.00201	"	0.0407	ND	94.0	30-150		34.9	30	Non-dir.	
Aldrin	0.0362	0.00201	"	0.0407	ND	88.9	30-150		5.81	30		
alpha-BHC	0.0343	0.00201	"	0.0407	ND	84.3	30-150		6.55	30		
alpha-Chlordane	0.0449	0.00201	"	0.0407	0.00306	103	30-150		5.90	30		
beta-BHC	0.0353	0.00201	"	0.0407	ND	86.9	30-150		2.97	30		
delta-BHC	0.0352	0.00201	"	0.0407	ND	86.6	30-150		0.214	30		
Dieldrin	0.0365	0.00201	"	0.0407	ND	89.9	30-150		5.10	30		
Endosulfan I	0.0373	0.00201	"	0.0407	ND	91.7	30-150		5.35	30		
Endosulfan II	0.0389	0.00201	"	0.0407	ND	95.6	30-150		8.00	30		
Endosulfan sulfate	0.0392	0.00201	"	0.0407	ND	96.4	30-150		1.20	30		
Endrin	0.0364	0.00201	"	0.0407	ND	89.6	30-150		1.75	30		
Endrin aldehyde	0.0482	0.00201	"	0.0407	ND	119	30-150		33.2	30	Non-dir.	
Endrin ketone	0.0384	0.00201	"	0.0407	ND	94.4	30-150		2.41	30		
gamma-BHC (Lindane)	0.0341	0.00201	"	0.0407	ND	83.9	30-150		6.28	30		
gamma-Chlordane	0.0406	0.00201	"	0.0407	0.00389	90.3	30-150		5.45	30		
Heptachlor	0.0344	0.00201	"	0.0407	ND	84.7	30-150		5.40	30		
Heptachlor epoxide	0.0372	0.00201	"	0.0407	ND	91.4	30-150		5.99	30		
Methoxychlor	0.0410	0.00201	"	0.0407	ND	101	30-150		31.1	30	Non-dir.	
Surrogate: Decachlorobiphenyl	0.0639		"	0.0813		78.6	30-150					
Surrogate: Tetrachloro-m-xylene	0.0480		"	0.0813		59.0	30-150					
<b>Matrix Spike Dup (BL30289-MSD2)</b>		*Source sample: 23L0133-01 (Matrix Spike Dup)					Prepared: 12/06/2023 Analyzed: 12/07/2023					
4,4'-DDD	ND	0.000403	mg/kg dry		ND		30-150			30		
4,4'-DDE	ND	0.000403	"		0.00157		30-150			30		
4,4'-DDT	ND	0.000403	"		0.00108		30-150			30		
Aldrin	ND	0.000403	"		ND		30-150			30		
alpha-BHC	ND	0.000403	"		ND		30-150			30		
alpha-Chlordane	ND	0.000403	"		0.00250		30-150			30		
beta-BHC	ND	0.000403	"		ND		30-150			30		
delta-BHC	ND	0.000403	"		ND		30-150			30		
Dieldrin	ND	0.000403	"		0.000945		30-150			30		
Endosulfan I	ND	0.000403	"		ND		30-150			30		
Endosulfan II	ND	0.000403	"		ND		30-150			30		
Endosulfan sulfate	ND	0.000403	"		ND		30-150			30		
Endrin	ND	0.000403	"		ND		30-150			30		
Endrin aldehyde	ND	0.000403	"		ND		30-150			30		
Endrin ketone	ND	0.000403	"		ND		30-150			30		
gamma-BHC (Lindane)	ND	0.000403	"		ND		30-150			30		
gamma-Chlordane	ND	0.000403	"		0.00318		30-150			30		
Heptachlor	ND	0.000403	"		ND		30-150			30		
Heptachlor epoxide	ND	0.000403	"		0.000764		30-150			30		
Methoxychlor	ND	0.000403	"		ND		30-150			30		
Surrogate: Decachlorobiphenyl	0.0293		"	0.0813		36.0	30-150					
Surrogate: Tetrachloro-m-xylene	0.0337		"	0.0813		41.5	30-150					



**Organochlorine Pesticides by GC/ECD - 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
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**Batch S3L0640 - BL30009**

<b>Performance Mix (S3L0640-PEM1)</b>							Prepared & Analyzed: 12/05/2023				
4,4'-DDD	1.78		ng/mL	0.00			0-200				
4,4'-DDE	0.390		"	0.00			0-200				
4,4'-DDT	236		"	200		118	0-200				
Endrin	124		"	100		124	0-200				
Endrin aldehyde	6.01		"	0.00			0-200				
Endrin ketone	3.31		"	0.00			0-200				

**Batch S3L0656 - BL30318**

<b>Performance Mix (S3L0656-PEM1)</b>							Prepared & Analyzed: 12/06/2023				
4,4'-DDD	1.58		ng/mL	0.00			0-200				
4,4'-DDE	0.237		"	0.00			0-200				
4,4'-DDT	238		"	200		119	0-200				
Endrin	123		"	100		123	0-200				
Endrin aldehyde	2.59		"	0.00			0-200				
Endrin ketone	2.14		"	0.00			0-200				

<b>Performance Mix (S3L0656-PEM2)</b>							Prepared & Analyzed: 12/06/2023				
4,4'-DDD	2.18		ng/mL	0.00			0-200				
4,4'-DDE	0.485		"	0.00			0-200				
4,4'-DDT	207		"	200		103	0-200				
Endrin	111		"	100		111	0-200				
Endrin aldehyde	3.15		"	0.00			0-200				
Endrin ketone	3.73		"	0.00			0-200				

<b>Performance Mix (S3L0656-PEM3)</b>							Prepared: 12/06/2023 Analyzed: 12/07/2023				
4,4'-DDD	16.3		ng/mL	0.00			0-200				
4,4'-DDE	1.32		"	0.00			0-200				
4,4'-DDT	185		"	200		92.6	0-200				
Endrin	108		"	100		108	0-200				
Endrin aldehyde	5.45		"	0.00			0-200				
Endrin ketone	6.89		"	0.00			0-200				



**Polychlorinated Biphenyls by GC/ECD - 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
<b>Batch BL30289 - EPA 3550C</b>											
<b>Blank (BL30289-BLK2)</b>											
										Prepared: 12/06/2023 Analyzed: 12/07/2023	
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0306		"	0.0664		46.0	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0249		"	0.0664		37.5	30-120				
<b>LCS (BL30289-BS2)</b>											
										Prepared: 12/06/2023 Analyzed: 12/07/2023	
Aroclor 1016	0.253	0.0166	mg/kg wet	0.332		76.0	40-130				
Aroclor 1260	0.234	0.0166	"	0.332		70.4	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0355		"	0.0664		53.5	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0299		"	0.0664		45.0	30-120				
<b>Matrix Spike (BL30289-MS2)</b>											
				*Source sample: 23L0133-01 (Matrix Spike)				Prepared: 12/06/2023 Analyzed: 12/07/2023			
Aroclor 1016	0.192	0.0203	mg/kg dry	0.407	ND	47.3	40-140				
Aroclor 1260	0.236	0.0203	"	0.407	ND	58.0	40-140				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0390		"	0.0813		48.0	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0346		"	0.0813		42.5	30-120				
<b>Matrix Spike Dup (BL30289-MSD2)</b>											
				*Source sample: 23L0133-01 (Matrix Spike Dup)				Prepared: 12/06/2023 Analyzed: 12/07/2023			
Aroclor 1016	0.166	0.0203	mg/kg dry	0.407	ND	40.9	40-140		14.4	50	
Aroclor 1260	0.192	0.0203	"	0.407	ND	47.3	40-140		20.4	50	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0337		"	0.0813		41.5	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0293		"	0.0813		36.0	30-120				



**Polychlorinated Biphenyls by GC/ECD - 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
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**Batch S3L0658 - BL30327**

**Aroclor Reference (S3L0658-ARC1)**

Prepared & Analyzed: 12/06/2023

Surrogate: Tetrachloro-m-xylene	0.174		ug/mL	0.200		87.0					
Surrogate: Decachlorobiphenyl	0.162		"	0.200		81.0					



**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
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**Batch BL30267 - EPA 3050B**

**Blank (BL30267-BLK1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

**Duplicate (BL30267-DUP1)**

\*Source sample: 23L0133-01 (Duplicate)

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	10600	5.10	mg/kg dry		8030				27.9	35	
Antimony	ND	2.55	"		ND					35	
Arsenic	6.17	1.53	"		2.07				99.6	35	Non-dir.
Barium	78.6	2.55	"		76.9				2.22	35	
Beryllium	ND	0.051	"		ND					35	
Cadmium	ND	0.306	"		ND					35	
Calcium	53500	5.10	"		55200				3.17	35	
Chromium	32.3	0.510	"		50.5				43.8	35	Non-dir.
Cobalt	6.80	0.408	"		6.76				0.509	35	
Copper	31.7	2.04	"		27.4				14.6	35	
Iron	13500	25.5	"		12000				11.9	35	
Lead	45.6	0.510	"		52.6				14.3	35	
Magnesium	7160	5.10	"		13800				63.2	35	Non-dir.
Manganese	234	0.510	"		281				18.4	35	
Nickel	25.3	1.02	"		84.5				108	35	Non-dir.
Potassium	2140	5.10	"		989				73.5	35	Non-dir.
Selenium	ND	2.55	"		ND					35	
Silver	ND	0.514	"		ND					35	
Sodium	388	51.0	"		243				46.1	35	Non-dir.
Thallium	ND	2.55	"		ND					35	
Vanadium	26.9	1.02	"		24.4				9.77	35	
Zinc	81.1	2.54	"		128				44.7	35	Non-dir.



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

**Batch BL30267 - EPA 3050B**

<b>Matrix Spike (BL30267-MS1)</b>	<b>*Source sample: 23L0133-01 (Matrix Spike)</b>						<b>Prepared: 12/05/2023 Analyzed: 12/06/2023</b>				
Aluminum	8390	5.10	mg/kg dry	204	8030	176	75-125	High Bias			
Antimony	9.82	2.55	"	25.5	ND	38.5	75-125	Low Bias			
Arsenic	209	1.53	"	204	2.07	102	75-125				
Barium	259	2.55	"	204	76.9	89.5	75-125				
Beryllium	4.15	0.051	"	5.10	ND	81.4	75-125				
Cadmium	4.72	0.306	"	5.10	ND	92.5	75-125				
Calcium	71100	5.10	"	102	55200	NR	75-125	High Bias			
Chromium	186	0.510	"	20.4	50.5	666	75-125	High Bias			
Cobalt	50.6	0.408	"	51.0	6.76	85.9	75-125				
Copper	52.6	2.04	"	25.5	27.4	98.9	75-125				
Iron	11100	25.5	"	102	12000	NR	75-125	Low Bias			
Lead	83.7	0.510	"	51.0	52.6	60.9	75-125	Low Bias			
Magnesium	11000	5.10	"	102	13800	NR	75-125	Low Bias			
Manganese	280	0.510	"	51.0	281	NR	75-125	Low Bias			
Nickel	65.1	1.02	"	51.0	84.5	NR	75-125	Low Bias			
Potassium	1200	5.10	"	102	989	211	75-125	High Bias			
Selenium	205	2.55	"	204	ND	101	75-125				
Silver	2.10	0.514	"	5.10	ND	41.2	75-125	Low Bias			
Sodium	394	51.0	"	102	243	148	75-125	High Bias			
Thallium	170	2.55	"	204	ND	83.3	75-125				
Vanadium	73.9	1.02	"	51.0	24.4	97.2	75-125				
Zinc	472	2.54	"	51.0	128	675	75-125	High Bias			

<b>Post Spike (BL30267-PS1)</b>	<b>*Source sample: 23L0133-01 (Post Spike)</b>						<b>Prepared: 12/05/2023 Analyzed: 12/06/2023</b>				
Aluminum	79.9		ug/mL	2.00	78.7	57.8	75-125	Low Bias			
Antimony	0.243		"	0.250	0.013	92.2	75-125				
Arsenic	1.99		"	2.00	0.020	98.3	75-125				
Barium	2.61		"	2.00	0.754	92.9	75-125				
Beryllium	0.041		"	0.0500	-0.005	82.7	75-125				
Cadmium	0.045		"	0.0500	0.001	86.8	75-125				
Calcium	539		"	1.00	541	NR	75-125	Low Bias			
Chromium	0.670		"	0.200	0.495	87.7	75-125				
Cobalt	0.510		"	0.500	0.066	88.7	75-125				
Copper	0.520		"	0.250	0.268	101	75-125				
Iron	117		"	1.00	118	NR	75-125	Low Bias			
Lead	0.943		"	0.500	0.516	85.4	75-125				
Magnesium	134		"	1.00	135	NR	75-125	Low Bias			
Manganese	3.18		"	0.500	2.75	85.4	75-125				
Nickel	1.25		"	0.500	0.829	85.2	75-125				
Potassium	10.6		"	1.00	9.70	85.7	75-125				
Selenium	1.96		"	2.00	-0.003	97.8	75-125				
Silver	0.018		"	0.0500	-0.032	35.3	75-125	Low Bias			
Sodium	4.22		"	1.00	2.38	184	75-125	High Bias			
Thallium	1.65		"	2.00	-0.008	82.4	75-125				
Vanadium	0.699		"	0.500	0.239	92.0	75-125				
Zinc	1.70		"	0.500	1.25	89.6	75-125				



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL30267 - EPA 3050B**

**Reference (BL30267-SRM1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	7550	4.17	mg/kg wet	9490		79.5	45.4-128.6						
Antimony	59.9	2.08	"	248		24.1	3-103.2						
Arsenic	124	1.25	"	163		76.0	68.7-100.6						
Barium	271	2.08	"	319		85.1	82.5-115.7						
Beryllium	93.4	0.042	"	119		78.5	77.7-109.2						
Cadmium	103	0.250	"	130		79.0	75.2-106.2						
Calcium	4270	4.17	"	5000		85.4	80.6-114.4						
Chromium	133	0.417	"	153		87.2	77.8-111.8						
Cobalt	133	0.333	"	153		87.1	79.1-109.8						
Copper	225	1.67	"	245		91.9	80.4-111						
Iron	6770	20.8	"	7540		89.8	69.8-144.6						
Lead	185	0.417	"	220		84.0	80-113.6						
Magnesium	1840	4.17	"	1980		92.8	85.9-129.3						
Manganese	388	0.417	"	431		90.1	79.6-114.2						
Nickel	151	0.830	"	175		86.5	76.6-108.6						
Potassium	1410	4.17	"	1570		89.6	80.9-131.2						
Selenium	147	2.08	"	156		94.3	80.8-118.6						
Silver	43.6	0.420	"	82.9		52.6	76.7-114.7						Low Bias
Sodium	558	41.7	"	453		123	72.2-119.7						High Bias
Thallium	75.2	2.08	"	99.4		75.6	75.8-110.7						Low Bias
Vanadium	140	0.830	"	170		82.6	75.3-114.1						
Zinc	336	2.08	"	201		167	79.6-115.92						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
<b>Batch BL30481 - EPA 7473 soil</b>											
<b>Blank (BL30481-BLK1)</b>											
Mercury	ND	0.0300	mg/kg wet								Prepared & Analyzed: 12/07/2023
<b>Duplicate (BL30481-DUP1)</b>											
*Source sample: 23K1831-01 (Duplicate)											
Mercury	1.07	0.0346	mg/kg dry		3.04				96.0	35	Non-dir.
<b>Matrix Spike (BL30481-MS1)</b>											
*Source sample: 23K1831-01 (Matrix Spike)											
Mercury	1.30		mg/kg	0.500	2.64	NR	75-125	Low Bias			Prepared & Analyzed: 12/07/2023
<b>Reference (BL30481-SRM1)</b>											
Mercury	19.548		mg/kg	18.2		107	59.9-140.1				Prepared & Analyzed: 12/07/2023



**Miscellaneous Physical Parameters - 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
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**Batch BL30170 - % Solids Prep**

<b>Duplicate (BL30170-DUP1)</b>	*Source sample: 23K1838-01 (Duplicate)						Prepared & Analyzed: 12/04/2023					
% Solids	73.6	0.100	%		71.1				3.47	20		

**Batch BL30213 - % Solids Prep**

<b>Duplicate (BL30213-DUP1)</b>	*Source sample: 23L0133-01 (Duplicate)						Prepared & Analyzed: 12/05/2023					
% Solids	80.2	0.100	%		81.7				1.86	20		



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K1837-01	B-01 (4-6 ft)	40mL Vial with Stir Bar-Cool 4° C
23K1837-02	B-02 (6-8 ft)	40mL Vial with Stir Bar-Cool 4° C
23K1837-03	B-03 (5-7 ft)	40mL Vial with Stir Bar-Cool 4° C
23K1837-04	B-04 (5-7 ft)	40mL Vial with Stir Bar-Cool 4° C
23K1837-05	B-05 (5-7 ft)	40mL Vial with Stir Bar-Cool 4° C
23K1837-07	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.
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.
PCB-I	PCB calculations are based upon the average response of 5 peaks for each Aroclor. For this sample an interference was present and the analyst was unable to use all 5 peaks.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
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.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
ICVE20	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 20% of expected value).
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVH	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
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).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

## 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.

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# Field Chain-of-Custody Record

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.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 client.services@yorklab.com www.yorklab.com 800-306-YORK Page 1 of 1

YORK Project No. 23K1837

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company: <u>Labella Associates</u>	Company: <u>LL</u>	Company: <u>LL</u>	Company: <u>LL</u>	Company: <u>LL</u>	Company: <u>LL</u>	Company: <u>LL</u>	Company: <u>LL</u>	RUSH - Next Day	
Address: <u>4 Brighton Avenue Latham, NY 12110</u>	Address: <u>LL</u>	Address: <u>LL</u>	Address: <u>LL</u>	Address: <u>LL</u>	Address: <u>LL</u>	Address: <u>LL</u>	Address: <u>LL</u>	RUSH - Two Day	
Phone: <u>Bronson Fields</u>	Phone: <u>LL</u>	Phone: <u>LL</u>	Phone: <u>LL</u>	Phone: <u>LL</u>	Phone: <u>LL</u>	Phone: <u>LL</u>	Phone: <u>LL</u>	RUSH - Three Day	
Contact: <u>Bronson Fields</u>	Contact: <u>LL</u>	Contact: <u>LL</u>	Contact: <u>LL</u>	Contact: <u>LL</u>	Contact: <u>LL</u>	Contact: <u>LL</u>	Contact: <u>LL</u>	RUSH - Four Day	
E-mail: <u>bfields@labella-pe.com</u>	E-mail: <u>LL</u>	E-mail: <u>LL</u>	E-mail: <u>LL</u>	E-mail: <u>LL</u>	E-mail: <u>LL</u>	E-mail: <u>LL</u>	E-mail: <u>LL</u>	RUSH - Five Day	

**Matrix Codes**  
 S - soil / solid  
 GW - groundwater  
 DW - drinking water  
 WW - wastewater  
 O - Oil | Other

**Report / EDD Type (circle selections)**  
 Summary Report  CT RCP  
 QA Report  CT RCP DQ/DUE NYSDEC EQUIS (Standard)  
 CMDP  NJDEP Reduced NJDKQP  
 Standard Excel EDD Deliverables  NJDEP SRP HazSite  
 NY ASP B Package  Other:

**YORK Reg. Comp.**  
 Compared to the following Regulation(s): (please fill in)  
Part 375 SCOS  
CP-51

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
B-01 (4-6ft)	S	11/29/23 0820	TEL VOCs, TEL SVOCs, Pesticides, PCBs	1" x 8.0 x 4.5 x 10ml	5
B-02 (6-8ft)		0845	TEL VOCs, PCBs (1633)	"	
B-03 (5-7ft)		0915		"	
B-04 (5-7ft)		0930		"	
B-05 (5-7ft)		1000		"	
IV5-B-FB	QA/QC	1230	PFAS (1633)	2 x 250ml	2
Trap Blank	QA/QC	1300	TEL VOCs	2 x 40ml	2

**Comments:**

1. Samples Relinquished by / Company: Bronson Fields / Labella Date/Time: 11/29/23 15:00

2. Samples Received by / Company: Labella POE Sample fridge Date/Time: 11/29/23 15:00

3. Samples Relinquished by / Company: Cheri Carter Date/Time: 11-30-23 15:00

4. Samples Relinquished by / Company: Cheri Carter Date/Time: 11-30-23 15:00

Temperature: 6.7 degrees C



# Technical Report

prepared for:

**LaBella Associates (Poughkeepsie)**

21 Fox Street

Poughkeepsie NY, 12601

**Attention: Branson Fields**

Report Date: 12/08/2023

**Client Project ID: 2222335 IV5-Brookfield Newburgh**

York Project (SDG) No.: 23K1831

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  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371



132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)



Report Date: 12/08/2023  
Client Project ID: 2222335 IV5-Brookfield Newburgh  
York Project (SDG) No.: 23K1831

**LaBella Associates (Poughkeepsie)**  
21 Fox Street  
Poughkeepsie NY, 12601  
Attention: Branson Fields

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## 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 30, 2023 and listed below. The project was identified as your project: **2222335 IV5-Brookfield Newburgh**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23K1831-01	IV5_WC-01	Soil	11/29/2023	11/30/2023
23K1831-02	IV5_WC_FB	Water	11/29/2023	11/30/2023
23K1831-03	Trip Blank	Water	11/29/2023	11/30/2023

## **General Notes for York Project (SDG) No.: 23K1831**

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:** 12/08/2023

Cassie L. Mosher  
Laboratory Manager





### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1831	2222335 IV5-Brookfield Newburgh	Soil	November 29, 2023 12:20 pm	11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>5.7</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-34-3	<b>1,1-Dichloroethane</b>	<b>1.0</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	12/06/2023 09:00	12/06/2023 15:33	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>5.0</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.41</b>	J	mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>1.4</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	5.2	10	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
591-78-6	2-Hexanone	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
67-64-1	Acetone	0.57	J	mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
107-02-8	Acrolein	ND		mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
71-43-2	Benzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-25-2	Bromoform	ND	CCVE	mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
67-66-3	Chloroform	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
156-59-2	cis-1,2-Dichloroethylene	23		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
100-41-4	Ethyl Benzene	8.9		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Volatile Organics, 8260 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
108-87-2	<b>Methylcyclohexane</b>	<b>1.4</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
103-65-1	<b>n-Propylbenzene</b>	<b>0.43</b>	J	mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
95-47-6	<b>o-Xylene</b>	<b>9.3</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>33</b>		mg/kg dry	0.52	1.0	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
100-42-5	Styrene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/06/2023 09:00	12/06/2023 15:33	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>82</b>	CCVE, QL-02	mg/kg dry	0.58	1.2	200	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/07/2023 09:00	12/07/2023 13:21	SS
108-88-3	<b>Toluene</b>	<b>14</b>		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
79-01-6	<b>Trichloroethylene</b>	<b>140</b>		mg/kg dry	1.4	2.9	500	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/08/2023 09:00	12/08/2023 11:52	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.26	0.52	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS
1330-20-7	<b>Xylenes, Total</b>	<b>43</b>		mg/kg dry	0.78	1.6	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/06/2023 09:00	12/06/2023 15:33	SS

Surrogate Recoveries

Result

Acceptance Range



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 12:20 pm	<u>Date Received</u> 11/30/2023
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**Volatile Organics, 8260 Comprehensive**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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: SURRE: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	98.8 %			76-130						

**Volatile Organics, TCLP RCRA List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

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		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.036</b>	J	mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
78-93-3	2-Butanone	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
71-43-2	Benzene	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
56-23-5	Carbon tetrachloride	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
108-90-7	Chlorobenzene	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
67-66-3	Chloroform	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.92</b>	QL-02	mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
79-01-6	<b>Trichloroethylene</b>	<b>3.9</b>		mg/L	0.12	0.25	50	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/06/2023 12:30	12/06/2023 22:45	SS
75-01-4	Vinyl Chloride	ND		mg/L	0.025	0.050	10	EPA 8260C/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,NELAC-NY12	12/04/2023 12:30	12/05/2023 03:51	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	99.0 %			77-125						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %			76-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	106 %			85-120						

**Semi-Volatiles, TCLP RCRA Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

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		mg/L	0.00645	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:17	12/05/2023 00:37	KH



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semi-Volatiles, TCLP RCRA Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00722	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00654	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00473	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00171	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
65794-96-9	<b>3- &amp; 4-Methylphenols</b>	<b>0.0441</b>		mg/L	0.00743	0.0200	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
1319-77-3	<b>Cresols, total</b>	<b>0.0441</b>		mg/L	0.00740	0.0300	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854	12/03/2023 07:17	12/05/2023 00:37	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00591	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00662	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00726	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00393	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00753	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH
110-86-1	Pyridine	ND		mg/L	0.00637	0.0100	1	EPA 8270D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:17	12/05/2023 00:37	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	52.6 %	10-90.9
13127-88-3	Surrogate: SURR: Phenol-d6	38.1 %	10-69.2
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	78.3 %	19.2-141
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.6 %	24.8-127
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	105 %	23-163
1718-51-0	Surrogate: SURR: Terphenyl-d14	94.6 %	25.8-110

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH





### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
51-28-5	2,4-Dinitrophenol	ND	CCVE	mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-57-6	<b>2-Methylnaphthalene</b>	<b>0.530</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/04/2023 23:58	KH
95-48-7	2-Methylphenol	ND	ICVE	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CCVE	mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
62-53-3	Aniline	ND		mg/kg dry	0.192	0.384	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
92-87-5	Benzidine	ND		mg/kg dry	0.192	0.384	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
85-68-7	<b>Benzyl butyl phthalate</b>	<b>1.60</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

York Project (SDG) No.

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>233</b>		mg/kg dry	4.81	9.60	200	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/05/2023 17:00	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0960	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
84-74-2	<b>Di-n-butyl phthalate</b>	<b>494</b>		mg/kg dry	12.0	24.0	500	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/06/2023 01:47	KH-
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
206-44-0	<b>Fluoranthene</b>	<b>0.0668</b>	J	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/04/2023 23:58	KH
86-73-7	<b>Fluorene</b>	<b>0.0483</b>	J	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/03/2023 07:38	12/04/2023 23:58	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
91-20-3	<b>Naphthalene</b>	<b>0.190</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/03/2023 07:38	12/04/2023 23:58	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
86-30-6	N-Nitrosodiphenylamine	ND	CCVE	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH



### Sample Information

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23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Semivolatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
85-01-8	<b>Phenanthrene</b>	<b>0.143</b>		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
108-95-2	Phenol	ND		mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
129-00-0	<b>Pyrene</b>	<b>0.0760</b>	J	mg/kg dry	0.0481	0.0960	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.192	0.384	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:38	12/04/2023 23:58	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	60.4 %	20-108								
13127-88-3	Surrogate: SURR: Phenol-d6	64.0 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	66.2 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	57.1 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	55.6 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	61.2 %	24-116								

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.126	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
307-24-4	<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.0905</b>	J	ug/kg dry	0.0601	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-85-9	<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.237</b>		ug/kg dry	0.119	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.203	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
335-67-1	<b>Perfluorooctanoic acid (PFOA)</b>	<b>24.0</b>		ug/kg dry	0.195	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.189	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.214	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.217	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.225	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.185	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ



### Sample Information

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

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**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		ug/kg dry	0.142	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.117	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.168	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.220	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.124	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.166	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.176	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.217	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.675	0.862	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.857	0.871	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.124	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.158	0.404	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
151772-58-6	* Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ug/kg dry	0.219	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0703	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.109	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.178	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.675	0.851	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.690	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.353	0.858	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.279	0.849	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.197	0.858	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.192	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.141	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/01/2023 10:28	12/03/2023 18:14	ESJ



### Sample Information

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2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.719	1.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.38	5.67	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.70	5.67	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.693	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.204	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.791	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.225	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/01/2023 10:28	12/03/2023 18:14	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	12.3 %	25-150
Surrogate: M5PFHxA	23.4 %	25-150
Surrogate: M4PFHpA	76.2 %	25-150
Surrogate: M3PFHxS	115 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	101 %	25-150
Surrogate: M6PFDA	145 %	25-150
Surrogate: M7PFUdA	101 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	88.7 %	25-150
Surrogate: M2PFTeDA	106 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	3.39 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	135 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.16 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	79.7 %	10-150
Surrogate: d3-N-MeFOSAA	131 %	25-150
Surrogate: d5-N-EtFOSAA	123 %	25-150
Surrogate: M2-6:2 FTS	156 %	25-200
Surrogate: M2-8:2 FTS	222 %	25-200
Surrogate: M9PFNA	111 %	25-150
Surrogate: M2-4:2 FTS	26.0 %	25-150
Surrogate: d-N-MeFOSA	47.3 %	25-150
Surrogate: d-N-EtFOSA	40.0 %	25-150
Surrogate: M3HFPO-DA	21.8 %	25-150





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Soil

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**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d9-N-EtFOSE	33.8 %			25-150						
	Surrogate: d7-N-MeFOSE	52.9 %			25-150						

**Pesticides, TCLP RCRA List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/L	0.200	0.200	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
72-20-8	Endrin	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
76-44-8	Heptachlor	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
72-43-5	Methoxychlor	ND		ug/L	0.0400	0.0400	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
8001-35-2	Toxaphene	ND		ug/L	1.00	1.00	1	EPA 8081B/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/03/2023 07:22	12/04/2023 21:37	BCJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	71.4 %			30-120						
877-09-8	Surrogate: Tetrachloro-m-xylene	59.7 %			30-120						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
12672-29-6	<b>Aroclor 1248</b>	<b>0.239</b>	P	mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/07/2023 14:51	12/08/2023 15:45	BCJ





### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	0.239	P	mg/kg dry	0.0190	1	EPA 8082A	12/07/2023 14:51	12/08/2023 15:45	BCJ
							Certifications:			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	59.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	57.5 %	30-140							

**Herbicides, TCLP Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A/1311	12/04/2023 09:09	12/05/2023 18:00	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A/1311	12/04/2023 09:09	12/05/2023 18:00	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	48.2 %	10-150							

**Total Petroleum Hydrocarbons-DRO (C10-C28)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Total Petroleum Hydrocarbons-DRO</b>		<b>1840</b>		mg/kg dry	11.4	1	EPA 8015D	12/01/2023 08:00	12/04/2023 12:01	GXB
							Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
638-68-6	Surrogate: Triacontane	52.7 %	30-150							

**Total Petroleum Hydrocarbons-GRO (C5-C10)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Total Petroleum Hydrocarbons-GRO</b>		<b>616</b>		mg/kg dry	86.5	100	EPA 8015D	12/01/2023 08:00	12/02/2023 03:01	BMT
							Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440			
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	78.0 %	52-146							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

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

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 12:20 pm	<u>Date Received</u> 11/30/2023
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10700		mg/kg dry	4.81	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-36-0	Antimony	36.0		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-38-2	Arsenic	4.96		mg/kg dry	1.44	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-39-3	Barium	3090		mg/kg dry	2.40	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-41-7	Beryllium	0.052		mg/kg dry	0.049	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-43-9	Cadmium	11.6		mg/kg dry	0.289	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-70-2	Calcium	476		mg/kg dry	4.81	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-47-3	Chromium	41.2		mg/kg dry	0.482	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-48-4	Cobalt	1.08		mg/kg dry	0.385	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-50-8	Copper	75.3		mg/kg dry	1.93	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-89-6	Iron	19900		mg/kg dry	24.1	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-92-1	Lead	241		mg/kg dry	0.482	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-95-4	Magnesium	3670		mg/kg dry	4.82	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7439-96-5	Manganese	330		mg/kg dry	0.482	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-02-0	Nickel	18.5		mg/kg dry	0.959	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-09-7	Potassium	1150		mg/kg dry	4.82	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7782-49-2	Selenium	3.96		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-22-4	Silver	ND		mg/kg dry	0.485	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-23-5	Sodium	1040		mg/kg dry	48.1	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-28-0	Thallium	ND		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG
7440-62-2	Vanadium	16.8		mg/kg dry	0.959	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

23K1831

2222335 IV5-Brookfield Newburgh

Soil

November 29, 2023 12:20 pm

11/30/2023

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	96.8		mg/kg dry	2.40	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/05/2023 15:25	12/06/2023 13:34	CEG

**Metals, TCLP RCRA**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-39-3	Barium	3.03		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7439-92-1	Lead	0.384		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/07/2023 08:46	12/08/2023 13:34	CEG
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/07/2023 08:46	12/08/2023 13:34	CEG

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	3.04		mg/kg dry	0.0346	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04	12/07/2023 16:10	12/07/2023 20:47	AGNR

**Mercury, TCLP**

**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	0.000200	1	EPA 7470/1311 Certifications: CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04440,NELAC-NY108	12/05/2023 08:21	12/05/2023 08:21	PFA

**pH**

**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
	pH	4.61		pH units	0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH-PH-0723,PADEP-68-04440,NJDEP-CT	12/06/2023 07:48	12/06/2023 15:10	TCD

**Reactivity-Cyanide**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** IV5\_WC-01

**York Sample ID:** 23K1831-01

<u>York Project (SDG) No.</u> 23K1831	<u>Client Project ID</u> 2222335 IV5-Brookfield Newburgh	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2023 12:20 pm	<u>Date Received</u> 11/30/2023
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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
	* Reactivity - Cyanide	Non-Reactiv e		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH-PH-0723,PADEP-68-04440	12/04/2023 08:58	12/04/2023 16:04	SMK

**Reactivity-Sulfide**

**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
	* Reactivity - Sulfide	24.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH-PH-0723,PADEP-68-04440	12/04/2023 08:56	12/04/2023 16:04	SMK

**Ignitability**

**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
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P Certifications:	11/30/2023 16:40	12/01/2023 09:03	TAJ

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.6		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/04/2023 10:04	12/04/2023 11:48	TAJ

**TCLP Extraction for METALS EPA 1311**

**Log-in Notes:**

**Sample Notes: EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/01/2023 13:11	12/02/2023 17:03	LRS

**TCLP Extraction for SVOCs/PEST/HERB**

**Log-in Notes:**

**Sample Notes: EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/01/2023 12:24	12/02/2023 17:02	LRS

**TCLP Extraction for VOA by EPA 1311 ZHE**

**Log-in Notes:**

**Sample Notes: EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	12/01/2023 14:38	12/04/2023 09:44	TAJ



### Sample Information

**Client Sample ID:** IV5\_WC\_FB

**York Sample ID:** 23K1831-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 12:35 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.459	1.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.342	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.694	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.664	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.410	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.801	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.508	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.733	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.10	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.860	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.723	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.674	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.772	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.01	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.225	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.860	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.889	1.87	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.29	1.89	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.04	7.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.322	7.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.488	3.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.09	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ



### Sample Information

**Client Sample ID:** IV5\_WC\_FB

**York Sample ID:** 23K1831-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 12:35 pm

11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.244	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.361	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/01/2023 11:01	12/04/2023 02:02	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.743	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.75	7.33	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.16	7.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.35	7.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.684	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
919005-14-4	ADONA	ND		ng/L	0.518	7.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.909	1.90	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.840	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/01/2023 11:01	12/04/2023 02:02	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPiPA)	ND		ng/L	1.98	4.88	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.16	24.4	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.25	24.4	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.90	19.5	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.54	1.95	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.90	19.5	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.76	1.95	1	EPA 1633 Draft 3 Certifications:	12/01/2023 11:01	12/04/2023 02:02	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: M3PFBS	127 %	25-150
Surrogate: M5PFHxA	153 %	25-150
Surrogate: M4PFHpA	205 %	25-150
Surrogate: M3PFHxS	197 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	157 %	25-150
Surrogate: M6PFDA	191 %	25-150
Surrogate: M7PFUdA	161 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	106 %	25-150



### Sample Information

**Client Sample ID:** IV5\_WC\_FB

**York Sample ID:** 23K1831-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1831	2222335 IV5-Brookfield Newburgh	Water	November 29, 2023 12:35 pm	11/30/2023

**PFAS, EPA 1633 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2PFTeDA	32.0 %			10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.05 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	148 %			25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	27.9 %			25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	123 %			10-150						
	Surrogate: d3-N-MeFOSAA	137 %			25-150						
	Surrogate: d5-N-EtFOSAA	104 %			25-150						
	Surrogate: M2-6:2 FTS	151 %			25-200						
	Surrogate: M2-8:2 FTS	157 %			25-200						
	Surrogate: M9PFNA	%			25-150						
	Surrogate: M2-4:2 FTS	141 %			25-150						
	Surrogate: d-N-MeFOSA	115 %			25-150						
	Surrogate: d-N-EtFOSA	94.9 %			25-150						
	Surrogate: M3HFPO-DA	166 %			25-150						
	Surrogate: d9-N-EtFOSE	17.4 %			25-150						
	Surrogate: d7-N-MeFOSE	32.2 %			25-150						

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1831-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1831	2222335 IV5-Brookfield Newburgh	Water	November 29, 2023 1:00 pm	11/30/2023

**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	0.216	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA





### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1831-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

**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
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
87-61-6	1,2,3-Trichlorobenzene	ND	QL-02	ug/L	0.222	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
123-91-1	1,4-Dioxane	ND	ICVE	ug/L	35.3	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
67-64-1	Acetone	ND	ICVE	ug/L	1.34	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
107-13-1	<b>Acrylonitrile</b>	<b>0.430</b>		ug/L	0.422	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K1831-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various chemical compounds like Bromodichloromethane, Bromoform, etc.



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 23K1831-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23K1831

2222335 IV5-Brookfield Newburgh

Water

November 29, 2023 1:00 pm

11/30/2023

**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
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/05/2023 22:20	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	12/05/2023 12:30	12/05/2023 22:20	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	12/05/2023 12:30	12/05/2023 22:20	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	12/05/2023 12:30	12/05/2023 22:20	SMA
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	99.7 %			70-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	97.5 %			70-130						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.1 %			70-130						



## Analytical Batch Summary

**Batch ID:** BK31831      **Preparation Method:** EPA 5035A      **Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BK31831-BLK1	Blank	12/01/23
BK31831-DUP1	Duplicate	12/01/23
BK31831-MS1	Matrix Spike	12/01/23
BK31831-SRM1	Reference	12/01/23

**Batch ID:** BK31981      **Preparation Method:** Analysis Preparation      **Prepared By:** CAM2

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	11/30/23

**Batch ID:** BK31986      **Preparation Method:** EPA 3550C      **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BK31986-BLK1	Blank	12/01/23
BK31986-BS1	LCS	12/01/23
BK31986-MS1	Matrix Spike	12/01/23
BK31986-MSD1	Matrix Spike Dup	12/01/23

**Batch ID:** BL30041      **Preparation Method:** EPA 1633 Prep      **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BL30041-BLK1	Blank	12/01/23
BL30041-BS1	LCS	12/01/23
BL30041-BS2	LCS	12/01/23
BL30041-MS1	Matrix Spike	12/01/23
BL30041-MSD1	Matrix Spike Dup	12/01/23

**Batch ID:** BL30044      **Preparation Method:** EPA 1633 Prep      **Prepared By:** AM

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-02	IV5_WC_FB	12/01/23
BL30044-BLK1	Blank	12/01/23
BL30044-BS1	LCS	12/01/23
BL30044-BS2	LCS	12/01/23
BL30044-DUP1	Duplicate	12/01/23

**Batch ID:** BL30046      **Preparation Method:** EPA SW 846-1311 TCLP extr. for SV(      **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
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23K1831-01 IV5\_WC-01 12/01/23  
BL30046-BLK1 Blank 12/01/23

**Batch ID:** BL30051 **Preparation Method:** EPA SW 846-1311 TCLP ext. for metz **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BL30051-BLK1	Blank	12/01/23

**Batch ID:** BL30053 **Preparation Method:** EPA SW 846-1311 TCLP ZHE for VO **Prepared By:** CAM2

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/01/23
BL30053-BLK1	Blank	12/01/23

**Batch ID:** BL30084 **Preparation Method:** EPA 3510C/1311 **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/03/23
BL30084-BLK1	Blank	12/03/23
BL30084-BS1	LCS	12/03/23
BL30084-BSD1	LCS Dup	12/03/23
BL30084-LBK1	Leach Fluid Blank	12/03/23
BL30084-MS1	Matrix Spike	12/03/23

**Batch ID:** BL30085 **Preparation Method:** EPA 3510C/1311 **Prepared By:** RJ

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/03/23
BL30085-BLK1	Blank	12/03/23
BL30085-BS1	LCS	12/03/23
BL30085-BSD1	LCS Dup	12/03/23
BL30085-LBK1	Leach Fluid Blank	12/03/23
BL30085-MS1	Matrix Spike	12/03/23

**Batch ID:** BL30088 **Preparation Method:** EPA 3550C **Prepared By:** kaz

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/03/23
23K1831-01RE1	IV5_WC-01	12/03/23
23K1831-01RE2	IV5_WC-01	12/03/23
BL30088-MS1	Matrix Spike	12/03/23
BL30088-MSD1	Matrix Spike Dup	12/03/23

**Batch ID:** BL30146 **Preparation Method:** Analysis Preparation **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date
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23K1831-01	IV5_WC-01	12/04/23
BL30146-BLK1	Blank	12/04/23
BL30146-DUP1	Duplicate	12/04/23

**Batch ID:** BL30147      **Preparation Method:** Analysis Preparation      **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30147-BLK1	Blank	12/04/23

**Batch ID:** BL30148      **Preparation Method:** EPA 3535A/1311      **Prepared By:** moa

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30148-BLK1	Blank	12/04/23
BL30148-BS1	LCS	12/04/23
BL30148-BSD1	LCS Dup	12/04/23
BL30148-LBK1	Leach Fluid Blank	12/04/23
BL30148-MS1	Matrix Spike	12/04/23

**Batch ID:** BL30153      **Preparation Method:** % Solids Prep      **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30153-DUP1	Duplicate	12/04/23

**Batch ID:** BL30185      **Preparation Method:** EPA 5030B/1311      **Prepared By:** SKF

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/04/23
BL30185-BLK1	Blank	12/04/23
BL30185-BS1	LCS	12/04/23
BL30185-BSD1	LCS Dup	12/04/23
BL30185-LBK1	Leach Fluid Blank	12/04/23
BL30185-MS1	Matrix Spike	12/04/23

**Batch ID:** BL30215      **Preparation Method:** EPA SW846-7470A      **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/05/23
BL30215-BLK1	Blank	12/05/23
BL30215-BLK2	Blank	12/05/23
BL30215-BS1	LCS	12/05/23
BL30215-BS2	LCS	12/05/23
BL30215-LBK1	Leach Fluid Blank	12/05/23



**Batch ID:** BL30248                      **Preparation Method:** EPA 5030B                      **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-03	Trip Blank	12/05/23
BL30248-BLK1	Blank	12/05/23
BL30248-BS1	LCS	12/05/23
BL30248-BS2	LCS	12/05/23
BL30248-BSD1	LCS Dup	12/05/23
BL30248-BSD2	LCS Dup	12/05/23

**Batch ID:** BL30267                      **Preparation Method:** EPA 3050B                      **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/05/23
BL30267-BLK1	Blank	12/05/23
BL30267-DUP1	Duplicate	12/05/23
BL30267-MS1	Matrix Spike	12/05/23
BL30267-PS1	Post Spike	12/05/23
BL30267-SRM1	Reference	12/05/23

**Batch ID:** BL30313                      **Preparation Method:** Analysis Preparation                      **Prepared By:** TCD

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/06/23
BL30313-DUP1	Duplicate	12/06/23

**Batch ID:** BL30315                      **Preparation Method:** EPA 5035A                      **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/06/23
BL30315-BLK1	Blank	12/06/23
BL30315-BLK2	Blank	12/06/23
BL30315-BS1	LCS	12/06/23
BL30315-BSD1	LCS Dup	12/06/23
BL30315-MS1	Matrix Spike	12/06/23
BL30315-MSD1	Matrix Spike Dup	12/06/23

**Batch ID:** BL30368                      **Preparation Method:** EPA 5030B/1311                      **Prepared By:** SKF

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01RE1	IV5_WC-01	12/06/23
BL30368-BLK1	Blank	12/06/23
BL30368-BS1	LCS	12/06/23
BL30368-BSD1	LCS Dup	12/06/23
BL30368-LBK1	Leach Fluid Blank	12/06/23

**Batch ID:** BL30387                      **Preparation Method:** EPA 5035A                      **Prepared By:** SS





YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01RE1	IV5_WC-01	12/07/23
BL30387-BLK1	Blank	12/07/23
BL30387-BLK2	Blank	12/07/23
BL30387-BS1	LCS	12/07/23
BL30387-BSD1	LCS Dup	12/07/23
BL30387-MS1	Matrix Spike	12/07/23

**Batch ID:** BL30425      **Preparation Method:** EPA 3015A/1311      **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/07/23
BL30425-BLK1	Blank	12/07/23
BL30425-BS1	LCS	12/07/23
BL30425-DUP1	Duplicate	12/07/23
BL30425-LBK1	Leach Fluid Blank	12/07/23
BL30425-MS1	Matrix Spike	12/07/23
BL30425-PS1	Post Spike	12/07/23

**Batch ID:** BL30462      **Preparation Method:** EPA 3550C      **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/07/23
BL30462-BLK2	Blank	12/07/23
BL30462-BS2	LCS	12/07/23

**Batch ID:** BL30481      **Preparation Method:** EPA 7473 soil      **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01	IV5_WC-01	12/07/23
BL30481-BLK1	Blank	12/07/23
BL30481-DUP1	Duplicate	12/07/23
BL30481-MS1	Matrix Spike	12/07/23
BL30481-SRM1	Reference	12/07/23

**Batch ID:** BL30498      **Preparation Method:** EPA 5035A      **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K1831-01RE2	IV5_WC-01	12/08/23
BL30498-BLK1	Blank	12/08/23
BL30498-BLK2	Blank	12/08/23
BL30498-BS1	LCS	12/08/23
BL30498-BSD1	LCS Dup	12/08/23



**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
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**Batch BL30185 - EPA 5030B/1311**

**Blank (BL30185-BLK1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	ND	0.0050	mg/L								
1,2-Dichloroethane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
Benzene	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.7</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>55.1</i>		<i>"</i>	<i>50.0</i>		<i>110</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>53.0</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>85-120</i>				

**LCS (BL30185-BS1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	51		ug/L	50.0		102	68-134				
1,2-Dichloroethane	49		"	50.0		97.4	69-133				
1,4-Dichlorobenzene	52		"	50.0		104	82-124				
2-Butanone	44		"	50.0		87.7	44-169				
Benzene	48		"	50.0		96.3	72-134				
Carbon tetrachloride	48		"	50.0		95.3	62-145				
Chlorobenzene	51		"	50.0		102	85-119				
Chloroform	46		"	50.0		91.9	74-131				
Tetrachloroethylene	33		"	50.0		66.5	78-133	Low Bias			
Trichloroethylene	50		"	50.0		99.5	81-125				
Vinyl Chloride	64		"	50.0		128	42-136				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>52.1</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>54.6</i>		<i>"</i>	<i>50.0</i>		<i>109</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>53.2</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>85-120</i>				



**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
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**Batch BL30185 - EPA 5030B/1311**

**LCS Dup (BL30185-BSD1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	52		ug/L	50.0		104	68-134		1.61	30	
1,2-Dichloroethane	49		"	50.0		97.9	69-133		0.492	30	
1,4-Dichlorobenzene	54		"	50.0		108	82-124		3.27	30	
2-Butanone	43		"	50.0		85.3	44-169		2.70	30	
Benzene	49		"	50.0		98.0	72-134		1.73	30	
Carbon tetrachloride	48		"	50.0		96.7	62-145		1.48	30	
Chlorobenzene	52		"	50.0		104	85-119		1.95	30	
Chloroform	47		"	50.0		93.5	74-131		1.68	30	
Tetrachloroethylene	34		"	50.0		67.1	78-133	Low Bias	0.868	30	
Trichloroethylene	51		"	50.0		102	81-125		2.93	30	
Vinyl Chloride	64		"	50.0		129	42-136		0.0934	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>54.1</i>		<i>"</i>	<i>50.0</i>		<i>108</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.9</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>85-120</i>				

**Leach Fluid Blank (BL30185-LBK1)**

Prepared & Analyzed: 12/04/2023

1,1-Dichloroethylene	ND	0.050	mg/L								
1,2-Dichloroethane	ND	0.050	"								
1,4-Dichlorobenzene	ND	0.050	"								
2-Butanone	ND	0.050	"								
Benzene	ND	0.050	"								
Carbon tetrachloride	ND	0.050	"								
Chlorobenzene	ND	0.050	"								
Chloroform	ND	0.050	"								
Tetrachloroethylene	ND	0.050	"								
Trichloroethylene	ND	0.050	"								
Vinyl Chloride	ND	0.050	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.7</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>55.5</i>		<i>"</i>	<i>50.0</i>		<i>111</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.3</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>85-120</i>				



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
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Batch BL30185 - EPA 5030B/1311

Matrix Spike (BL30185-MS1)	*Source sample: 23K1691-07 (Matrix Spike)						Prepared: 12/04/2023 Analyzed: 12/05/2023	
1,1-Dichloroethylene	48		ug/L	50.0	0.0	95.3	47-150	
1,2-Dichloroethane	47		"	50.0	0.0	93.4	57-139	
1,4-Dichlorobenzene	47		"	50.0	0.0	93.9	69-125	
2-Butanone	38		"	50.0	0.0	76.4	42-153	
Benzene	46		"	50.0	0.0	91.3	55-139	
Carbon tetrachloride	44		"	50.0	0.0	88.4	51-147	
Chlorobenzene	49		"	50.0	0.0	98.3	75-120	
Chloroform	44		"	50.0	0.0	87.3	60-137	
Tetrachloroethylene	31		"	50.0	0.0	61.9	51-140	
Trichloroethylene	48		"	50.0	0.0	95.6	61-133	
Vinyl Chloride	42		"	50.0	0.0	84.8	25-140	
Surrogate: SURR: 1,2-Dichloroethane-d4	50.1		"	50.0		100	77-125	
Surrogate: SURR: p-Bromofluorobenzene	53.7		"	50.0		107	76-130	
Surrogate: SURR: Toluene-d8	53.6		"	50.0		107	85-120	

Batch BL30248 - EPA 5030B

Blank (BL30248-BLK1)	Prepared & Analyzed: 12/05/2023										
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	"								
1,4-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	"								



**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
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**Batch BL30248 - EPA 5030B**

**Blank (BL30248-BLK1)**

Prepared & Analyzed: 12/05/2023

Chlorobenzene	ND	0.500	ug/L								
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	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
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	"								
<hr/>											
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.2		"	10.0		102	70-130				
Surrogate: SURRE: Toluene-d8	9.81		"	10.0		98.1	70-130				
Surrogate: SURRE: p-Bromofluorobenzene	9.83		"	10.0		98.3	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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS (BL30248-BS1)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	9.77		ug/L	10.0		97.7	82-126				30
1,1,1-Trichloroethane	10.4		"	10.0		104	70-130				20
1,1,2,2-Tetrachloroethane	9.94		"	10.0		99.4	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	70-130				20
1,1,2-Trichloroethane	9.25		"	10.0		92.5	70-130				20
1,1-Dichloroethane	10.0		"	10.0		100	70-130				20
1,1-Dichloroethylene	11.1		"	10.0		111	70-130				20
1,2,3-Trichlorobenzene	7.58		"	10.0		75.8	70-130				20
1,2,3-Trichloropropane	9.26		"	10.0		92.6	77-128				30
1,2,4-Trichlorobenzene	8.65		"	10.0		86.5	70-130				20
1,2,4-Trimethylbenzene	9.81		"	10.0		98.1	82-132				20
1,2-Dibromo-3-chloropropane	8.62		"	10.0		86.2	40-160				20
1,2-Dibromoethane	9.18		"	10.0		91.8	70-130				20
1,2-Dichlorobenzene	9.28		"	10.0		92.8	70-130				20
1,2-Dichloroethane	9.93		"	10.0		99.3	70-130				20
1,2-Dichloropropane	9.97		"	10.0		99.7	70-130				20
1,3,5-Trimethylbenzene	9.95		"	10.0		99.5	80-131				30
1,3-Dichlorobenzene	9.41		"	10.0		94.1	70-130				20
1,4-Dichlorobenzene	9.25		"	10.0		92.5	70-130				20
1,4-Dioxane	76.0		"	210		36.2	40-160	Low Bias			20
2-Butanone	7.54		"	10.0		75.4	40-160				20
2-Hexanone	7.75		"	10.0		77.5	40-160				20
4-Methyl-2-pentanone	8.29		"	10.0		82.9	40-160				20
Acetone	3.13		"	10.0		31.3	40-160	Low Bias			20
Acrolein	11.0		"	10.0		110	10-153				30
Acrylonitrile	9.62		"	10.0		96.2	51-150				30
Benzene	10.6		"	10.0		106	70-130				20
Bromochloromethane	9.76		"	10.0		97.6	70-130				20
Bromodichloromethane	9.68		"	10.0		96.8	70-130				20
Bromoform	8.98		"	10.0		89.8	70-130				20
Bromomethane	16.0		"	10.0		160	40-160				20
Carbon disulfide	11.3		"	10.0		113	40-160				20
Carbon tetrachloride	10.5		"	10.0		105	70-130				20
Chlorobenzene	9.85		"	10.0		98.5	70-130				20
Chloroethane	11.1		"	10.0		111	40-160				20
Chloroform	10.0		"	10.0		100	70-130				20
Chloromethane	14.7		"	10.0		147	40-160				20
cis-1,2-Dichloroethylene	10.1		"	10.0		101	70-130				20
cis-1,3-Dichloropropylene	9.14		"	10.0		91.4	70-130				20
Cyclohexane	10.5		"	10.0		105	70-130				20
Dibromochloromethane	9.21		"	10.0		92.1	70-130				20
Dibromomethane	9.18		"	10.0		91.8	72-134				30
Dichlorodifluoromethane	14.2		"	10.0		142	40-160				20
Ethyl Benzene	10.1		"	10.0		101	70-130				20
Hexachlorobutadiene	9.65		"	10.0		96.5	67-146				30
Isopropylbenzene	10.0		"	10.0		100	70-130				20
Methyl acetate	8.64		"	10.0		86.4	70-130				20
Methyl tert-butyl ether (MTBE)	8.97		"	10.0		89.7	70-130				20
Methylcyclohexane	9.99		"	10.0		99.9	70-130				20
Methylene chloride	9.96		"	10.0		99.6	70-130				20



**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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS (BL30248-BS1)</b>											
Prepared & Analyzed: 12/05/2023											
n-Butylbenzene	9.70		ug/L	10.0		97.0	79-132				30
n-Propylbenzene	10.0		"	10.0		100	78-133				30
o-Xylene	9.78		"	10.0		97.8	70-130				20
p- & m- Xylenes	20.4		"	20.0		102	70-130				20
p-Isopropyltoluene	9.96		"	10.0		99.6	81-136				30
sec-Butylbenzene	9.85		"	10.0		98.5	79-137				30
Styrene	9.87		"	10.0		98.7	70-130				20
tert-Butyl alcohol (TBA)	46.4		"	50.0		92.9	25-162				30
tert-Butylbenzene	9.71		"	10.0		97.1	77-138				30
Tetrachloroethylene	5.76		"	10.0		57.6	70-130	Low Bias			20
Toluene	10.3		"	10.0		103	70-130				20
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				20
trans-1,3-Dichloropropylene	9.05		"	10.0		90.5	70-130				20
Trichloroethylene	9.65		"	10.0		96.5	70-130				20
Trichlorofluoromethane	11.4		"	10.0		114	40-160				20
Vinyl Chloride	12.0		"	10.0		120	70-130				20
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	9.73		"	10.0		97.3	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.92		"	10.0		99.2	70-130				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.95		"	10.0		99.5	70-130				
<b>LCS (BL30248-BS2)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	9.30		ug/L	10.0		93.0	82-126				30
1,1,1-Trichloroethane	10.0		"	10.0		100	70-130				20
1,1,2,2-Tetrachloroethane	9.34		"	10.0		93.4	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	70-130				20
1,1,2-Trichloroethane	9.20		"	10.0		92.0	70-130				20
1,1-Dichloroethane	9.83		"	10.0		98.3	70-130				20
1,1-Dichloroethylene	10.7		"	10.0		107	70-130				20
1,2,3-Trichlorobenzene	8.68		"	10.0		86.8	70-130				20
1,2,3-Trichloropropane	9.18		"	10.0		91.8	77-128				30
1,2,4-Trichlorobenzene	9.22		"	10.0		92.2	70-130				20
1,2,4-Trimethylbenzene	9.40		"	10.0		94.0	82-132				20
1,2-Dibromo-3-chloropropane	8.79		"	10.0		87.9	40-160				20
1,2-Dibromoethane	9.70		"	10.0		97.0	70-130				20
1,2-Dichlorobenzene	9.22		"	10.0		92.2	70-130				20
1,2-Dichloroethane	10.4		"	10.0		104	70-130				20
1,2-Dichloropropane	9.41		"	10.0		94.1	70-130				20
1,3,5-Trimethylbenzene	9.34		"	10.0		93.4	80-131				30
1,3-Dichlorobenzene	9.12		"	10.0		91.2	70-130				20
1,4-Dichlorobenzene	8.94		"	10.0		89.4	70-130				20
1,4-Dioxane	78.4		"	210		37.3	40-160	Low Bias			20
2-Butanone	7.79		"	10.0		77.9	40-160				20
2-Hexanone	8.80		"	10.0		88.0	40-160				20
4-Methyl-2-pentanone	9.05		"	10.0		90.5	40-160				20
Acetone	7.22		"	10.0		72.2	40-160				20
Acrolein	9.71		"	10.0		97.1	10-153				30
Acrylonitrile	10.3		"	10.0		103	51-150				30
Benzene	10.4		"	10.0		104	70-130				20
Bromochloromethane	10.0		"	10.0		100	70-130				20
Bromodichloromethane	9.49		"	10.0		94.9	70-130				20





**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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS (BL30248-BS2)</b>											
Prepared & Analyzed: 12/05/2023											
Bromoform	9.34		ug/L	10.0		93.4	70-130				20
Bromomethane	16.2		"	10.0		162	40-160	High Bias			20
Carbon disulfide	10.9		"	10.0		109	40-160				20
Carbon tetrachloride	10.3		"	10.0		103	70-130				20
Chlorobenzene	9.46		"	10.0		94.6	70-130				20
Chloroethane	10.7		"	10.0		107	40-160				20
Chloroform	10.0		"	10.0		100	70-130				20
Chloromethane	14.1		"	10.0		141	40-160				20
cis-1,2-Dichloroethylene	9.97		"	10.0		99.7	70-130				20
cis-1,3-Dichloropropylene	8.93		"	10.0		89.3	70-130				20
Cyclohexane	10.2		"	10.0		102	70-130				20
Dibromochloromethane	9.55		"	10.0		95.5	70-130				20
Dibromomethane	9.17		"	10.0		91.7	72-134				30
Dichlorodifluoromethane	13.8		"	10.0		138	40-160				20
Ethyl Benzene	9.63		"	10.0		96.3	70-130				20
Hexachlorobutadiene	9.20		"	10.0		92.0	67-146				30
Isopropylbenzene	9.25		"	10.0		92.5	70-130				20
Methyl acetate	9.15		"	10.0		91.5	70-130				20
Methyl tert-butyl ether (MTBE)	9.68		"	10.0		96.8	70-130				20
Methylcyclohexane	9.32		"	10.0		93.2	70-130				20
Methylene chloride	9.80		"	10.0		98.0	70-130				20
n-Butylbenzene	9.24		"	10.0		92.4	79-132				30
n-Propylbenzene	9.20		"	10.0		92.0	78-133				30
o-Xylene	9.44		"	10.0		94.4	70-130				20
p- & m- Xylenes	19.4		"	20.0		97.0	70-130				20
p-Isopropyltoluene	9.28		"	10.0		92.8	81-136				30
sec-Butylbenzene	9.18		"	10.0		91.8	79-137				30
Styrene	9.64		"	10.0		96.4	70-130				20
tert-Butyl alcohol (TBA)	52.0		"	50.0		104	25-162				30
tert-Butylbenzene	9.07		"	10.0		90.7	77-138				30
Tetrachloroethylene	5.43		"	10.0		54.3	70-130	Low Bias			20
Toluene	9.68		"	10.0		96.8	70-130				20
trans-1,2-Dichloroethylene	10.1		"	10.0		101	70-130				20
trans-1,3-Dichloropropylene	8.96		"	10.0		89.6	70-130				20
Trichloroethylene	9.69		"	10.0		96.9	70-130				20
Trichlorofluoromethane	11.1		"	10.0		111	40-160				20
Vinyl Chloride	11.7		"	10.0		117	70-130				20
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.2		"	10.0		102	70-130				
Surrogate: SURRE: Toluene-d8	9.72		"	10.0		97.2	70-130				
Surrogate: SURRE: p-Bromofluorobenzene	9.73		"	10.0		97.3	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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS Dup (BL30248-BSD1)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	9.25		ug/L	10.0		92.5	82-126		5.47	30	
1,1,1-Trichloroethane	9.86		"	10.0		98.6	70-130		5.52	20	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	70-130		1.40	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	70-130		5.85	20	
1,1,2-Trichloroethane	9.02		"	10.0		90.2	70-130		2.52	20	
1,1-Dichloroethane	9.67		"	10.0		96.7	70-130		3.85	20	
1,1-Dichloroethylene	10.4		"	10.0		104	70-130		6.70	20	
1,2,3-Trichlorobenzene	7.94		"	10.0		79.4	70-130		4.64	20	
1,2,3-Trichloropropane	8.97		"	10.0		89.7	77-128		3.18	30	
1,2,4-Trichlorobenzene	8.97		"	10.0		89.7	70-130		3.63	20	
1,2,4-Trimethylbenzene	9.70		"	10.0		97.0	82-132		1.13	20	
1,2-Dibromo-3-chloropropane	9.50		"	10.0		95.0	40-160		9.71	20	
1,2-Dibromoethane	9.12		"	10.0		91.2	70-130		0.656	20	
1,2-Dichlorobenzene	9.26		"	10.0		92.6	70-130		0.216	20	
1,2-Dichloroethane	9.66		"	10.0		96.6	70-130		2.76	20	
1,2-Dichloropropane	9.54		"	10.0		95.4	70-130		4.41	20	
1,3,5-Trimethylbenzene	9.70		"	10.0		97.0	80-131		2.54	30	
1,3-Dichlorobenzene	9.29		"	10.0		92.9	70-130		1.28	20	
1,4-Dichlorobenzene	9.17		"	10.0		91.7	70-130		0.869	20	
1,4-Dioxane	36.9		"	210		17.6	40-160	Low Bias	69.3	20	Non-dir.
2-Butanone	7.50		"	10.0		75.0	40-160		0.532	20	
2-Hexanone	7.81		"	10.0		78.1	40-160		0.771	20	
4-Methyl-2-pentanone	8.40		"	10.0		84.0	40-160		1.32	20	
Acetone	5.98		"	10.0		59.8	40-160		62.6	20	Non-dir.
Acrolein	11.3		"	10.0		113	10-153		2.15	30	
Acrylonitrile	9.93		"	10.0		99.3	51-150		3.17	30	
Benzene	10.2		"	10.0		102	70-130		3.86	20	
Bromochloromethane	9.49		"	10.0		94.9	70-130		2.81	20	
Bromodichloromethane	9.51		"	10.0		95.1	70-130		1.77	20	
Bromoform	8.89		"	10.0		88.9	70-130		1.01	20	
Bromomethane	16.5		"	10.0		165	40-160	High Bias	2.77	20	
Carbon disulfide	10.5		"	10.0		105	40-160		6.70	20	
Carbon tetrachloride	10.0		"	10.0		100	70-130		4.97	20	
Chlorobenzene	9.64		"	10.0		96.4	70-130		2.15	20	
Chloroethane	10.3		"	10.0		103	40-160		7.46	20	
Chloroform	9.77		"	10.0		97.7	70-130		2.73	20	
Chloromethane	13.8		"	10.0		138	40-160		6.25	20	
cis-1,2-Dichloroethylene	9.78		"	10.0		97.8	70-130		2.92	20	
cis-1,3-Dichloropropylene	8.87		"	10.0		88.7	70-130		3.00	20	
Cyclohexane	9.81		"	10.0		98.1	70-130		6.51	20	
Dibromochloromethane	9.22		"	10.0		92.2	70-130		0.109	20	
Dibromomethane	9.00		"	10.0		90.0	72-134		1.98	30	
Dichlorodifluoromethane	13.5		"	10.0		135	40-160		5.35	20	
Ethyl Benzene	9.75		"	10.0		97.5	70-130		3.72	20	
Hexachlorobutadiene	9.18		"	10.0		91.8	67-146		4.99	30	
Isopropylbenzene	9.69		"	10.0		96.9	70-130		3.25	20	
Methyl acetate	8.69		"	10.0		86.9	70-130		0.577	20	
Methyl tert-butyl ether (MTBE)	9.09		"	10.0		90.9	70-130		1.33	20	
Methylcyclohexane	9.33		"	10.0		93.3	70-130		6.83	20	
Methylene chloride	9.73		"	10.0		97.3	70-130		2.34	20	



**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
<b>Batch BL30248 - EPA 5030B</b>											
<b>LCS Dup (BL30248-BSD1)</b>											
Prepared & Analyzed: 12/05/2023											
n-Butylbenzene	9.41		ug/L	10.0		94.1	79-132		3.04	30	
n-Propylbenzene	9.62		"	10.0		96.2	78-133		4.37	30	
o-Xylene	9.46		"	10.0		94.6	70-130		3.33	20	
p- & m- Xylenes	19.5		"	20.0		97.4	70-130		4.67	20	
p-Isopropyltoluene	9.58		"	10.0		95.8	81-136		3.89	30	
sec-Butylbenzene	9.46		"	10.0		94.6	79-137		4.04	30	
Styrene	9.49		"	10.0		94.9	70-130		3.93	20	
tert-Butyl alcohol (TBA)	51.2		"	50.0		102	25-162		9.83	30	
tert-Butylbenzene	9.42		"	10.0		94.2	77-138		3.03	30	
Tetrachloroethylene	5.41		"	10.0		54.1	70-130	Low Bias	6.27	20	
Toluene	9.80		"	10.0		98.0	70-130		5.07	20	
trans-1,2-Dichloroethylene	9.80		"	10.0		98.0	70-130		6.42	20	
trans-1,3-Dichloropropylene	8.92		"	10.0		89.2	70-130		1.45	20	
Trichloroethylene	9.12		"	10.0		91.2	70-130		5.65	20	
Trichlorofluoromethane	10.8		"	10.0		108	40-160		5.85	20	
Vinyl Chloride	11.1		"	10.0		111	70-130		7.68	20	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>9.66</i>		<i>"</i>	<i>10.0</i>		<i>96.6</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.78</i>		<i>"</i>	<i>10.0</i>		<i>97.8</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>				
<b>LCS Dup (BL30248-BSD2)</b>											
Prepared & Analyzed: 12/05/2023											
1,1,1,2-Tetrachloroethane	9.25		ug/L	10.0		92.5	82-126		0.539	30	
1,1,1-Trichloroethane	9.74		"	10.0		97.4	70-130		2.63	20	
1,1,2,2-Tetrachloroethane	9.10		"	10.0		91.0	70-130		2.60	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	70-130		3.56	20	
1,1,2-Trichloroethane	9.33		"	10.0		93.3	70-130		1.40	20	
1,1-Dichloroethane	9.52		"	10.0		95.2	70-130		3.20	20	
1,1-Dichloroethylene	10.5		"	10.0		105	70-130		2.64	20	
1,2,3-Trichlorobenzene	8.63		"	10.0		86.3	70-130		0.578	20	
1,2,3-Trichloropropane	9.12		"	10.0		91.2	77-128		0.656	30	
1,2,4-Trichlorobenzene	9.06		"	10.0		90.6	70-130		1.75	20	
1,2,4-Trimethylbenzene	9.22		"	10.0		92.2	82-132		1.93	20	
1,2-Dibromo-3-chloropropane	8.42		"	10.0		84.2	40-160		4.30	20	
1,2-Dibromoethane	9.41		"	10.0		94.1	70-130		3.04	20	
1,2-Dichlorobenzene	9.14		"	10.0		91.4	70-130		0.871	20	
1,2-Dichloroethane	10.2		"	10.0		102	70-130		2.03	20	
1,2-Dichloropropane	9.23		"	10.0		92.3	70-130		1.93	20	
1,3,5-Trimethylbenzene	9.21		"	10.0		92.1	80-131		1.40	30	
1,3-Dichlorobenzene	8.93		"	10.0		89.3	70-130		2.11	20	
1,4-Dichlorobenzene	8.85		"	10.0		88.5	70-130		1.01	20	
1,4-Dioxane	91.5		"	210		43.6	40-160		15.5	20	
2-Butanone	9.28		"	10.0		92.8	40-160		17.5	20	
2-Hexanone	8.72		"	10.0		87.2	40-160		0.913	20	
4-Methyl-2-pentanone	8.76		"	10.0		87.6	40-160		3.26	20	
Acetone	7.69		"	10.0		76.9	40-160		6.30	20	
Acrolein	9.60		"	10.0		96.0	10-153		1.14	30	
Acrylonitrile	9.69		"	10.0		96.9	51-150		5.91	30	
Benzene	10.1		"	10.0		101	70-130		2.93	20	
Bromochloromethane	9.98		"	10.0		99.8	70-130		0.200	20	
Bromodichloromethane	9.29		"	10.0		92.9	70-130		2.13	20	



**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
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**Batch BL30248 - EPA 5030B**

**LCS Dup (BL30248-BSD2)**

Prepared & Analyzed: 12/05/2023

Bromoform	9.65		ug/L	10.0		96.5	70-130		3.26	20	
Bromomethane	15.2		"	10.0		152	40-160		6.81	20	
Carbon disulfide	10.6		"	10.0		106	40-160		2.52	20	
Carbon tetrachloride	9.94		"	10.0		99.4	70-130		3.36	20	
Chlorobenzene	9.25		"	10.0		92.5	70-130		2.24	20	
Chloroethane	10.6		"	10.0		106	40-160		0.936	20	
Chloroform	9.69		"	10.0		96.9	70-130		3.45	20	
Chloromethane	13.8		"	10.0		138	40-160		2.01	20	
cis-1,2-Dichloroethylene	9.76		"	10.0		97.6	70-130		2.13	20	
cis-1,3-Dichloropropylene	8.79		"	10.0		87.9	70-130		1.58	20	
Cyclohexane	9.77		"	10.0		97.7	70-130		3.91	20	
Dibromochloromethane	9.39		"	10.0		93.9	70-130		1.69	20	
Dibromomethane	8.98		"	10.0		89.8	72-134		2.09	30	
Dichlorodifluoromethane	13.3		"	10.0		133	40-160		3.75	20	
Ethyl Benzene	9.42		"	10.0		94.2	70-130		2.20	20	
Hexachlorobutadiene	9.19		"	10.0		91.9	67-146		0.109	30	
Isopropylbenzene	8.98		"	10.0		89.8	70-130		2.96	20	
Methyl acetate	9.73		"	10.0		97.3	70-130		6.14	20	
Methyl tert-butyl ether (MTBE)	9.60		"	10.0		96.0	70-130		0.830	20	
Methylcyclohexane	9.11		"	10.0		91.1	70-130		2.28	20	
Methylene chloride	9.66		"	10.0		96.6	70-130		1.44	20	
n-Butylbenzene	9.09		"	10.0		90.9	79-132		1.64	30	
n-Propylbenzene	8.98		"	10.0		89.8	78-133		2.42	30	
o-Xylene	9.25		"	10.0		92.5	70-130		2.03	20	
p- & m- Xylenes	19.0		"	20.0		94.8	70-130		2.35	20	
p-Isopropyltoluene	9.14		"	10.0		91.4	81-136		1.52	30	
sec-Butylbenzene	9.03		"	10.0		90.3	79-137		1.65	30	
Styrene	9.51		"	10.0		95.1	70-130		1.36	20	
tert-Butyl alcohol (TBA)	59.9		"	50.0		120	25-162		14.1	30	
tert-Butylbenzene	8.90		"	10.0		89.0	77-138		1.89	30	
Tetrachloroethylene	5.29		"	10.0		52.9	70-130	Low Bias	2.61	20	
Toluene	9.41		"	10.0		94.1	70-130		2.83	20	
trans-1,2-Dichloroethylene	9.82		"	10.0		98.2	70-130		3.11	20	
trans-1,3-Dichloropropylene	9.05		"	10.0		90.5	70-130		0.999	20	
Trichloroethylene	9.44		"	10.0		94.4	70-130		2.61	20	
Trichlorofluoromethane	10.8		"	10.0		108	40-160		3.56	20	
Vinyl Chloride	11.1		"	10.0		111	70-130		5.27	20	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.63</i>		<i>"</i>	<i>10.0</i>		<i>96.3</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.65</i>		<i>"</i>	<i>10.0</i>		<i>96.5</i>	<i>70-130</i>				



**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
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**Batch BL30315 - EPA 5035A**

**Blank (BL30315-BLK1)**

Prepared & Analyzed: 12/06/2023

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



**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
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**Batch BL30315 - EPA 5035A**

**Blank (BL30315-BLK1)**

Prepared & Analyzed: 12/06/2023

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	51.4		ug/L	50.0		103	77-125				
Surrogate: SURRE: Toluene-d8	52.7		"	50.0		105	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.2		"	50.0		102	76-130				

**Blank (BL30315-BLK2)**

Prepared & Analyzed: 12/06/2023

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	

**Batch BL30315 - EPA 5035A**

**Blank (BL30315-BLK2)**

Prepared & Analyzed: 12/06/2023

Bromodichloromethane	ND	0.50	mg/kg wet								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	51.2		ug/L	50.0		102	77-125				
Surrogate: SURRE: Toluene-d8	52.9		"	50.0		106	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.6		"	50.0		103	76-130				





**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	
<b>Batch BL30315 - EPA 5035A</b>											
<b>LCS (BL30315-BS1)</b>											
Prepared & Analyzed: 12/06/2023											
1,1,1,2-Tetrachloroethane	42.8		ug/L	50.0		85.5		75-129			
1,1,1-Trichloroethane	45.1		"	50.0		90.2		71-137			
1,1,2,2-Tetrachloroethane	53.1		"	50.0		106		79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44.0		"	50.0		88.0		58-146			
1,1,2-Trichloroethane	46.5		"	50.0		92.9		83-123			
1,1-Dichloroethane	43.6		"	50.0		87.3		75-130			
1,1-Dichloroethylene	47.2		"	50.0		94.4		64-137			
1,2,3-Trichlorobenzene	45.7		"	50.0		91.4		81-140			
1,2,3-Trichloropropane	50.1		"	50.0		100		81-126			
1,2,4-Trichlorobenzene	46.7		"	50.0		93.4		80-141			
1,2,4-Trimethylbenzene	51.9		"	50.0		104		84-125			
1,2-Dibromo-3-chloropropane	46.8		"	50.0		93.6		74-142			
1,2-Dibromoethane	48.5		"	50.0		97.0		86-123			
1,2-Dichlorobenzene	49.4		"	50.0		98.7		85-122			
1,2-Dichloroethane	46.6		"	50.0		93.1		71-133			
1,2-Dichloropropane	48.6		"	50.0		97.2		81-122			
1,3,5-Trimethylbenzene	51.3		"	50.0		103		82-126			
1,3-Dichlorobenzene	49.7		"	50.0		99.4		84-124			
1,4-Dichlorobenzene	48.7		"	50.0		97.5		84-124			
1,4-Dioxane	437		"	1050		41.6		10-228			
2-Butanone	45.1		"	50.0		90.1		58-147			
2-Hexanone	49.2		"	50.0		98.5		70-139			
4-Methyl-2-pentanone	51.3		"	50.0		103		72-132			
Acetone	37.0		"	50.0		74.1		36-155			
Acrolein	45.0		"	50.0		90.0		10-238			
Acrylonitrile	48.6		"	50.0		97.2		66-141			
Benzene	45.1		"	50.0		90.2		77-127			
Bromochloromethane	46.9		"	50.0		93.8		74-129			
Bromodichloromethane	44.6		"	50.0		89.2		81-124			
Bromoform	40.1		"	50.0		80.3		80-136			
Bromomethane	45.0		"	50.0		90.0		32-177			
Carbon disulfide	45.7		"	50.0		91.5		10-136			
Carbon tetrachloride	41.8		"	50.0		83.5		66-143			
Chlorobenzene	47.5		"	50.0		94.9		86-120			
Chloroethane	45.7		"	50.0		91.4		51-142			
Chloroform	43.9		"	50.0		87.7		76-131			
Chloromethane	46.9		"	50.0		93.8		49-132			
cis-1,2-Dichloroethylene	44.9		"	50.0		89.7		74-132			
cis-1,3-Dichloropropylene	43.8		"	50.0		87.7		81-129			
Cyclohexane	45.7		"	50.0		91.3		70-130			
Dibromochloromethane	42.8		"	50.0		85.7		10-200			
Dibromomethane	48.3		"	50.0		96.6		83-124			
Dichlorodifluoromethane	45.8		"	50.0		91.6		28-158			
Ethyl Benzene	51.6		"	50.0		103		84-125			
Hexachlorobutadiene	48.6		"	50.0		97.1		83-133			
Isopropylbenzene	49.2		"	50.0		98.5		81-127			
Methyl acetate	43.8		"	50.0		87.6		41-143			
Methyl tert-butyl ether (MTBE)	42.9		"	50.0		85.9		74-131			
Methylcyclohexane	44.8		"	50.0		89.6		70-130			
Methylene chloride	47.3		"	50.0		94.6		57-141			



**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
<b>Batch BL30315 - EPA 5035A</b>											
<b>LCS (BL30315-BS1)</b>											
Prepared & Analyzed: 12/06/2023											
n-Butylbenzene	52.7		ug/L	50.0		105	80-130				
n-Propylbenzene	50.5		"	50.0		101	74-136				
o-Xylene	49.5		"	50.0		99.1	83-123				
p- & m- Xylenes	104		"	100		104	82-128				
p-Isopropyltoluene	52.6		"	50.0		105	85-125				
sec-Butylbenzene	50.1		"	50.0		100	83-125				
Styrene	49.7		"	50.0		99.4	86-126				
tert-Butyl alcohol (TBA)	218		"	250		87.2	70-130				
tert-Butylbenzene	48.6		"	50.0		97.2	80-127				
Tetrachloroethylene	30.9		"	50.0		61.8	80-129	Low Bias			
Toluene	48.0		"	50.0		96.0	85-121				
trans-1,2-Dichloroethylene	45.3		"	50.0		90.6	72-132				
trans-1,3-Dichloropropylene	43.2		"	50.0		86.4	78-132				
Trichloroethylene	47.2		"	50.0		94.5	84-123				
Trichlorofluoromethane	47.8		"	50.0		95.6	62-140				
Vinyl Chloride	44.8		"	50.0		89.5	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.9</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>76-130</i>				
<b>LCS Dup (BL30315-BS1)</b>											
Prepared & Analyzed: 12/06/2023											
1,1,1,2-Tetrachloroethane	44.2		ug/L	50.0		88.5	75-129		3.40	30	
1,1,1-Trichloroethane	46.8		"	50.0		93.6	71-137		3.61	30	
1,1,2,2-Tetrachloroethane	54.2		"	50.0		108	79-129		2.03	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.3		"	50.0		92.7	58-146		5.14	30	
1,1,2-Trichloroethane	47.8		"	50.0		95.7	83-123		2.93	30	
1,1-Dichloroethane	45.1		"	50.0		90.3	75-130		3.40	30	
1,1-Dichloroethylene	48.8		"	50.0		97.6	64-137		3.33	30	
1,2,3-Trichlorobenzene	46.8		"	50.0		93.6	81-140		2.36	30	
1,2,3-Trichloropropane	51.1		"	50.0		102	81-126		2.00	30	
1,2,4-Trichlorobenzene	46.9		"	50.0		93.8	80-141		0.470	30	
1,2,4-Trimethylbenzene	52.7		"	50.0		105	84-125		1.42	30	
1,2-Dibromo-3-chloropropane	47.5		"	50.0		94.9	74-142		1.36	30	
1,2-Dibromoethane	50.4		"	50.0		101	86-123		3.76	30	
1,2-Dichlorobenzene	49.9		"	50.0		99.9	85-122		1.15	30	
1,2-Dichloroethane	48.1		"	50.0		96.3	71-133		3.32	30	
1,2-Dichloropropane	49.6		"	50.0		99.2	81-122		1.96	30	
1,3,5-Trimethylbenzene	51.8		"	50.0		104	82-126		0.950	30	
1,3-Dichlorobenzene	50.3		"	50.0		101	84-124		1.20	30	
1,4-Dichlorobenzene	49.4		"	50.0		98.8	84-124		1.35	30	
1,4-Dioxane	439		"	1050		41.8	10-228		0.623	30	
2-Butanone	47.3		"	50.0		94.6	58-147		4.81	30	
2-Hexanone	51.0		"	50.0		102	70-139		3.47	30	
4-Methyl-2-pentanone	52.6		"	50.0		105	72-132		2.52	30	
Acetone	37.8		"	50.0		75.7	36-155		2.14	30	
Acrolein	46.9		"	50.0		93.9	10-238		4.15	30	
Acrylonitrile	50.4		"	50.0		101	66-141		3.69	30	
Benzene	46.9		"	50.0		93.7	77-127		3.83	30	
Bromochloromethane	48.4		"	50.0		96.9	74-129		3.21	30	
Bromodichloromethane	46.0		"	50.0		91.9	81-124		3.00	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
<b>Batch BL30315 - EPA 5035A</b>											
<b>LCS Dup (BL30315-BSD1)</b>											
Prepared & Analyzed: 12/06/2023											
Bromoform	42.1		ug/L	50.0		84.3	80-136		4.84	30	
Bromomethane	46.3		"	50.0		92.5	32-177		2.78	30	
Carbon disulfide	47.7		"	50.0		95.5	10-136		4.30	30	
Carbon tetrachloride	43.4		"	50.0		86.9	66-143		3.99	30	
Chlorobenzene	48.6		"	50.0		97.2	86-120		2.37	30	
Chloroethane	47.2		"	50.0		94.3	51-142		3.10	30	
Chloroform	45.5		"	50.0		91.1	76-131		3.74	30	
Chloromethane	47.7		"	50.0		95.4	49-132		1.73	30	
cis-1,2-Dichloroethylene	46.3		"	50.0		92.7	74-132		3.22	30	
cis-1,3-Dichloropropylene	45.1		"	50.0		90.2	81-129		2.88	30	
Cyclohexane	46.8		"	50.0		93.6	70-130		2.49	30	
Dibromochloromethane	44.6		"	50.0		89.2	10-200		4.00	30	
Dibromomethane	50.0		"	50.0		100	83-124		3.44	30	
Dichlorodifluoromethane	46.3		"	50.0		92.6	28-158		1.09	30	
Ethyl Benzene	52.7		"	50.0		105	84-125		2.09	30	
Hexachlorobutadiene	49.0		"	50.0		98.0	83-133		0.943	30	
Isopropylbenzene	50.2		"	50.0		100	81-127		1.87	30	
Methyl acetate	44.8		"	50.0		89.6	41-143		2.32	30	
Methyl tert-butyl ether (MTBE)	44.7		"	50.0		89.4	74-131		4.02	30	
Methylcyclohexane	45.7		"	50.0		91.4	70-130		2.01	30	
Methylene chloride	48.6		"	50.0		97.1	57-141		2.57	30	
n-Butylbenzene	52.5		"	50.0		105	80-130		0.380	30	
n-Propylbenzene	51.1		"	50.0		102	74-136		1.24	30	
o-Xylene	50.5		"	50.0		101	83-123		1.96	30	
p- & m- Xylenes	107		"	100		107	82-128		2.22	30	
p-Isopropyltoluene	53.1		"	50.0		106	85-125		0.928	30	
sec-Butylbenzene	50.8		"	50.0		102	83-125		1.41	30	
Styrene	51.1		"	50.0		102	86-126		2.88	30	
tert-Butyl alcohol (TBA)	224		"	250		89.6	70-130		2.71	30	
tert-Butylbenzene	49.3		"	50.0		98.7	80-127		1.49	30	
Tetrachloroethylene	31.8		"	50.0		63.7	80-129	Low Bias	3.00	30	
Toluene	49.2		"	50.0		98.3	85-121		2.35	30	
trans-1,2-Dichloroethylene	46.5		"	50.0		93.0	72-132		2.66	30	
trans-1,3-Dichloropropylene	44.9		"	50.0		89.8	78-132		3.81	30	
Trichloroethylene	48.2		"	50.0		96.3	84-123		1.89	30	
Trichlorofluoromethane	48.8		"	50.0		97.6	62-140		2.13	30	
Vinyl Chloride	46.0		"	50.0		92.1	52-130		2.84	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	51.9		"	50.0		104	77-125				
Surrogate: SURRE: Toluene-d8	51.8		"	50.0		104	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	49.6		"	50.0		99.3	76-130				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	
<b>Batch BL30315 - EPA 5035A</b>											
<b>Matrix Spike (BL30315-MS1)</b>	*Source sample: 23K1867-01 (Matrix Spike)						Prepared & Analyzed: 12/06/2023				
1,1,1,2-Tetrachloroethane	36.5		ug/L	50.0	0.00	73.0	15-161				
1,1,1-Trichloroethane	40.1		"	50.0	0.00	80.1	42-145				
1,1,2,2-Tetrachloroethane	43.7		"	50.0	0.00	87.5	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36.6		"	50.0	0.00	73.2	11-160				
1,1,2-Trichloroethane	39.9		"	50.0	0.00	79.9	44-145				
1,1-Dichloroethane	39.6		"	50.0	0.00	79.1	46-142				
1,1-Dichloroethylene	41.7		"	50.0	0.00	83.4	30-153				
1,2,3-Trichlorobenzene	24.8		"	50.0	0.00	49.5	10-157				
1,2,3-Trichloropropane	41.3		"	50.0	0.00	82.7	38-155				
1,2,4-Trichlorobenzene	25.7		"	50.0	0.00	51.3	10-151				
1,2,4-Trimethylbenzene	40.5		"	50.0	0.00	81.0	10-170				
1,2-Dibromo-3-chloropropane	34.4		"	50.0	0.00	68.8	36-138				
1,2-Dibromoethane	41.4		"	50.0	0.00	82.8	40-142				
1,2-Dichlorobenzene	36.4		"	50.0	0.00	72.8	10-147				
1,2-Dichloroethane	40.8		"	50.0	0.00	81.6	48-133				
1,2-Dichloropropane	43.2		"	50.0	0.00	86.3	47-141				
1,3,5-Trimethylbenzene	40.4		"	50.0	0.00	80.9	10-150				
1,3-Dichlorobenzene	35.5		"	50.0	0.00	70.9	10-144				
1,4-Dichlorobenzene	34.6		"	50.0	0.00	69.3	10-160				
1,4-Dioxane	357		"	1050	0.00	34.0	10-191				
2-Butanone	36.3		"	50.0	0.00	72.5	10-189				
2-Hexanone	35.7		"	50.0	0.00	71.3	10-181				
4-Methyl-2-pentanone	40.9		"	50.0	0.00	81.8	10-166				
Acetone	30.2		"	50.0	0.00	60.3	10-196				
Acrolein	1.99		"	50.0	0.00	3.98	10-192	Low Bias			
Acrylonitrile	34.7		"	50.0	0.00	69.4	13-161				
Benzene	40.7		"	50.0	0.00	81.3	43-139				
Bromochloromethane	41.2		"	50.0	0.00	82.4	38-145				
Bromodichloromethane	38.6		"	50.0	0.00	77.1	38-147				
Bromoform	31.7		"	50.0	0.00	63.3	29-156				
Bromomethane	38.7		"	50.0	0.00	77.5	10-166				
Carbon disulfide	38.6		"	50.0	0.00	77.1	10-131				
Carbon tetrachloride	35.4		"	50.0	0.00	70.8	35-145				
Chlorobenzene	39.2		"	50.0	0.00	78.4	21-154				
Chloroethane	41.0		"	50.0	0.00	82.1	15-160				
Chloroform	39.4		"	50.0	0.00	78.7	47-142				
Chloromethane	42.7		"	50.0	0.00	85.3	10-159				
cis-1,2-Dichloroethylene	40.1		"	50.0	0.00	80.2	42-144				
cis-1,3-Dichloropropylene	37.0		"	50.0	0.00	73.9	18-159				
Cyclohexane	38.5		"	50.0	0.00	77.1	70-130				
Dibromochloromethane	35.4		"	50.0	0.00	70.9	10-179				
Dibromomethane	41.3		"	50.0	0.00	82.6	47-143				
Dichlorodifluoromethane	38.4		"	50.0	0.00	76.9	10-145				
Ethyl Benzene	42.6		"	50.0	0.00	85.2	11-158				
Hexachlorobutadiene	23.0		"	50.0	0.00	46.0	10-158				
Isopropylbenzene	40.6		"	50.0	0.00	81.1	10-162				
Methyl acetate	40.6		"	50.0	0.00	81.2	10-149				
Methyl tert-butyl ether (MTBE)	38.1		"	50.0	0.00	76.2	42-152				
Methylcyclohexane	33.9		"	50.0	0.00	67.7	70-130	Low Bias			
Methylene chloride	47.8		"	50.0	11.3	73.0	28-151				



**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
<b>Batch BL30315 - EPA 5035A</b>											
<b>Matrix Spike (BL30315-MS1)</b>		*Source sample: 23K1867-01 (Matrix Spike)					Prepared & Analyzed: 12/06/2023				
n-Butylbenzene	34.1		ug/L	50.0	0.00	68.3	10-162				
n-Propylbenzene	39.1		"	50.0	0.00	78.2	10-155				
o-Xylene	41.1		"	50.0	0.00	82.3	10-158				
p- & m- Xylenes	85.1		"	100	0.00	85.1	10-156				
p-Isopropyltoluene	37.9		"	50.0	0.00	75.8	10-147				
sec-Butylbenzene	36.7		"	50.0	0.00	73.4	10-157				
Styrene	39.2		"	50.0	0.00	78.5	13-171				
tert-Butyl alcohol (TBA)	177		"	250	0.00	70.9	34-179				
tert-Butylbenzene	38.5		"	50.0	0.00	77.1	10-160				
Tetrachloroethylene	25.2		"	50.0	0.00	50.3	30-167				
Toluene	41.5		"	50.0	0.00	83.0	21-160				
trans-1,2-Dichloroethylene	39.7		"	50.0	0.00	79.3	29-153				
trans-1,3-Dichloropropylene	35.3		"	50.0	0.00	70.6	18-155				
Trichloroethylene	40.6		"	50.0	0.00	81.2	24-169				
Trichlorofluoromethane	40.5		"	50.0	0.00	81.0	35-142				
Vinyl Chloride	39.5		"	50.0	0.00	79.1	12-160				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.0</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>76-130</i>				
<b>Matrix Spike Dup (BL30315-MSD1)</b>		*Source sample: 23K1867-01 (Matrix Spike Dup)					Prepared & Analyzed: 12/06/2023				
1,1,1,2-Tetrachloroethane	37.9		ug/L	50.0	0.00	75.7	15-161		3.71		33
1,1,1-Trichloroethane	41.4		"	50.0	0.00	82.8	42-145		3.31		30
1,1,2,2-Tetrachloroethane	45.9		"	50.0	0.00	91.7	16-167		4.75		56
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36.9		"	50.0	0.00	73.7	11-160		0.790		31
1,1,2-Trichloroethane	41.7		"	50.0	0.00	83.4	44-145		4.29		40
1,1-Dichloroethane	40.9		"	50.0	0.00	81.8	46-142		3.38		36
1,1-Dichloroethylene	42.7		"	50.0	0.00	85.3	30-153		2.35		31
1,2,3-Trichlorobenzene	23.8		"	50.0	0.00	47.6	10-157		3.95		47
1,2,3-Trichloropropane	43.4		"	50.0	0.00	86.7	38-155		4.77		48
1,2,4-Trichlorobenzene	24.4		"	50.0	0.00	48.7	10-151		5.20		52
1,2,4-Trimethylbenzene	40.0		"	50.0	0.00	80.1	10-170		1.09		242
1,2-Dibromo-3-chloropropane	36.3		"	50.0	0.00	72.6	36-138		5.37		54
1,2-Dibromoethane	43.1		"	50.0	0.00	86.2	40-142		4.07		39
1,2-Dichlorobenzene	35.9		"	50.0	0.00	71.7	10-147		1.41		52
1,2-Dichloroethane	42.6		"	50.0	0.00	85.1	48-133		4.27		32
1,2-Dichloropropane	44.7		"	50.0	0.00	89.4	47-141		3.55		37
1,3,5-Trimethylbenzene	40.1		"	50.0	0.00	80.2	10-150		0.820		62
1,3-Dichlorobenzene	34.5		"	50.0	0.00	69.1	10-144		2.63		51
1,4-Dichlorobenzene	33.8		"	50.0	0.00	67.6	10-160		2.49		52
1,4-Dioxane	385		"	1050	0.00	36.7	10-191		7.61		196
2-Butanone	38.2		"	50.0	0.00	76.4	10-189		5.18		67
2-Hexanone	35.4		"	50.0	0.00	70.9	10-181		0.675		60
4-Methyl-2-pentanone	42.9		"	50.0	0.00	85.8	10-166		4.78		47
Acetone	29.2		"	50.0	0.00	58.5	10-196		3.13		150
Acrolein	2.01		"	50.0	0.00	4.02	10-192	Low Bias	1.00		128
Acrylonitrile	37.0		"	50.0	0.00	74.0	13-161		6.39		48
Benzene	41.9		"	50.0	0.00	83.8	43-139		2.96		64
Bromochloromethane	42.4		"	50.0	0.00	84.8	38-145		2.87		30
Bromodichloromethane	40.5		"	50.0	0.00	81.0	38-147		4.91		37



**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
<b>Batch BL30315 - EPA 5035A</b>											
<b>Matrix Spike Dup (BL30315-MSD1)</b>	*Source sample: 23K1867-01 (Matrix Spike Dup)						Prepared & Analyzed: 12/06/2023				
Bromoform	33.3		ug/L	50.0	0.00	66.7	29-156		5.14	51	
Bromomethane	40.1		"	50.0	0.00	80.3	10-166		3.55	42	
Carbon disulfide	39.6		"	50.0	0.00	79.1	10-131		2.53	36	
Carbon tetrachloride	36.1		"	50.0	0.00	72.2	35-145		2.01	31	
Chlorobenzene	39.5		"	50.0	0.00	79.0	21-154		0.737	32	
Chloroethane	41.8		"	50.0	0.00	83.6	15-160		1.86	40	
Chloroform	40.8		"	50.0	0.00	81.7	47-142		3.69	29	
Chloromethane	43.6		"	50.0	0.00	87.2	10-159		2.11	31	
cis-1,2-Dichloroethylene	41.3		"	50.0	0.00	82.6	42-144		2.85	30	
cis-1,3-Dichloropropylene	38.2		"	50.0	0.00	76.4	18-159		3.25	39	
Cyclohexane	38.6		"	50.0	0.00	77.1	70-130		0.0778	30	
Dibromochloromethane	37.3		"	50.0	0.00	74.6	10-179		5.17	41	
Dibromomethane	42.8		"	50.0	0.00	85.6	47-143		3.61	41	
Dichlorodifluoromethane	38.0		"	50.0	0.00	76.0	10-145		1.18	34	
Ethyl Benzene	43.0		"	50.0	0.00	86.0	11-158		1.00	42	
Hexachlorobutadiene	22.3		"	50.0	0.00	44.6	10-158		3.05	45	
Isopropylbenzene	40.6		"	50.0	0.00	81.2	10-162		0.0493	57	
Methyl acetate	41.6		"	50.0	0.00	83.1	10-149		2.36	64	
Methyl tert-butyl ether (MTBE)	39.9		"	50.0	0.00	79.9	42-152		4.74	47	
Methylcyclohexane	33.1		"	50.0	0.00	66.2	70-130	Low Bias	2.27	30	
Methylene chloride	48.8		"	50.0	11.3	75.1	28-151		2.17	49	
n-Butylbenzene	33.1		"	50.0	0.00	66.3	10-162		2.94	96	
n-Propylbenzene	38.6		"	50.0	0.00	77.2	10-155		1.26	56	
o-Xylene	41.8		"	50.0	0.00	83.5	10-158		1.50	51	
p- & m- Xylenes	85.6		"	100	0.00	85.6	10-156		0.504	47	
p-Isopropyltoluene	37.2		"	50.0	0.00	74.4	10-147		1.86	60	
sec-Butylbenzene	36.1		"	50.0	0.00	72.2	10-157		1.59	56	
Styrene	39.2		"	50.0	0.00	78.4	13-171		0.102	39	
tert-Butyl alcohol (TBA)	198		"	250	0.00	79.3	34-179		11.2	35	
tert-Butylbenzene	38.2		"	50.0	0.00	76.4	10-160		0.860	79	
Tetrachloroethylene	25.2		"	50.0	0.00	50.3	30-167		0.0795	33	
Toluene	42.3		"	50.0	0.00	84.5	21-160		1.86	50	
trans-1,2-Dichloroethylene	40.4		"	50.0	0.00	80.8	29-153		1.80	30	
trans-1,3-Dichloropropylene	36.6		"	50.0	0.00	73.2	18-155		3.56	30	
Trichloroethylene	41.2		"	50.0	0.00	82.4	24-169		1.49	30	
Trichlorofluoromethane	40.6		"	50.0	0.00	81.3	35-142		0.394	30	
Vinyl Chloride	40.4		"	50.0	0.00	80.9	12-160		2.23	35	
Surrogate: Surr: 1,2-Dichloroethane-d4	50.0		"	50.0		100	77-125				
Surrogate: Surr: Toluene-d8	51.8		"	50.0		104	85-120				
Surrogate: Surr: p-Bromofluorobenzene	50.0		"	50.0		100	76-130				



**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
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**Batch BL30368 - EPA 5030B/1311**

**Blank (BL30368-BLK1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	ND	0.0050	mg/L								
1,2-Dichloroethane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
Benzene	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.0		ug/L	50.0		98.1	77-125				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	54.7		"	50.0		109	76-130				
<i>Surrogate: SURR: Toluene-d8</i>	52.6		"	50.0		105	85-120				

**LCS (BL30368-BS1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	45		ug/L	50.0		90.6	68-134				
1,2-Dichloroethane	47		"	50.0		93.9	69-133				
1,4-Dichlorobenzene	49		"	50.0		97.9	82-124				
2-Butanone	42		"	50.0		83.3	44-169				
Benzene	46		"	50.0		91.5	72-134				
Carbon tetrachloride	44		"	50.0		87.9	62-145				
Chlorobenzene	49		"	50.0		98.9	85-119				
Chloroform	44		"	50.0		87.8	74-131				
Tetrachloroethylene	31		"	50.0		62.6	78-133	Low Bias			
Trichloroethylene	47		"	50.0		95.0	81-125				
Vinyl Chloride	47		"	50.0		93.2	42-136				

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.9		"	50.0		99.7	77-125				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	53.6		"	50.0		107	76-130				
<i>Surrogate: SURR: Toluene-d8</i>	52.9		"	50.0		106	85-120				





**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
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**Batch BL30368 - EPA 5030B/1311**

**LCS Dup (BL30368-BSD1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	45		ug/L	50.0		90.6	68-134		0.0883	30	
1,2-Dichloroethane	46		"	50.0		91.9	69-133		2.09	30	
1,4-Dichlorobenzene	50		"	50.0		101	82-124		2.68	30	
2-Butanone	38		"	50.0		76.4	44-169		8.59	30	
Benzene	46		"	50.0		92.1	72-134		0.719	30	
Carbon tetrachloride	44		"	50.0		88.4	62-145		0.522	30	
Chlorobenzene	50		"	50.0		100	85-119		1.53	30	
Chloroform	44		"	50.0		88.2	74-131		0.455	30	
Tetrachloroethylene	32		"	50.0		63.8	78-133	Low Bias	1.87	30	
Trichloroethylene	49		"	50.0		98.6	81-125		3.72	30	
Vinyl Chloride	47		"	50.0		94.9	42-136		1.79	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.2</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>54.6</i>		<i>"</i>	<i>50.0</i>		<i>109</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.5</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>85-120</i>				

**Leach Fluid Blank (BL30368-LBK1)**

Prepared & Analyzed: 12/06/2023

1,1-Dichloroethylene	ND	0.050	mg/L								
1,2-Dichloroethane	ND	0.050	"								
1,4-Dichlorobenzene	ND	0.050	"								
2-Butanone	ND	0.050	"								
Benzene	ND	0.050	"								
Carbon tetrachloride	ND	0.050	"								
Chlorobenzene	ND	0.050	"								
Chloroform	ND	0.050	"								
Tetrachloroethylene	ND	0.050	"								
Trichloroethylene	ND	0.050	"								
Vinyl Chloride	ND	0.050	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>48.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.0</i>	<i>77-125</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>55.9</i>		<i>"</i>	<i>50.0</i>		<i>112</i>	<i>76-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.1</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				



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
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Batch BL30387 - EPA 5035A

Blank (BL30387-BLK1)

Prepared & Analyzed: 12/07/2023

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



**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
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**Batch BL30387 - EPA 5035A**

**Blank (BL30387-BLK1)**

Prepared & Analyzed: 12/07/2023

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	51.7		ug/L	50.0		103	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	53.0		"	50.0		106	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	52.7		"	50.0		105	76-130				

**Blank (BL30387-BLK2)**

Prepared & Analyzed: 12/07/2023

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								



**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
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**Batch BL30387 - EPA 5035A**

**Blank (BL30387-BLK2)**

Prepared & Analyzed: 12/07/2023

Bromodichloromethane	ND	0.50	mg/kg wet								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	51.8		ug/L	50.0	104	77-125
Surrogate: SURRE: Toluene-d8	53.1		"	50.0	106	85-120
Surrogate: SURRE: p-Bromofluorobenzene	52.6		"	50.0	105	76-130



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
<b>Batch BL30387 - EPA 5035A</b>											
<b>LCS (BL30387-BS1)</b>											
Prepared & Analyzed: 12/07/2023											
1,1,1,2-Tetrachloroethane	43.7		ug/L	50.0		87.4	75-129				
1,1,1-Trichloroethane	46.8		"	50.0		93.6	71-137				
1,1,2,2-Tetrachloroethane	53.5		"	50.0		107	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.6		"	50.0		93.2	58-146				
1,1,2-Trichloroethane	46.9		"	50.0		93.9	83-123				
1,1-Dichloroethane	45.5		"	50.0		90.9	75-130				
1,1-Dichloroethylene	51.0		"	50.0		102	64-137				
1,2,3-Trichlorobenzene	44.9		"	50.0		89.8	81-140				
1,2,3-Trichloropropane	49.9		"	50.0		99.8	81-126				
1,2,4-Trichlorobenzene	45.9		"	50.0		91.7	80-141				
1,2,4-Trimethylbenzene	52.2		"	50.0		104	84-125				
1,2-Dibromo-3-chloropropane	44.6		"	50.0		89.1	74-142				
1,2-Dibromoethane	49.1		"	50.0		98.2	86-123				
1,2-Dichlorobenzene	49.5		"	50.0		98.9	85-122				
1,2-Dichloroethane	48.2		"	50.0		96.4	71-133				
1,2-Dichloropropane	49.8		"	50.0		99.7	81-122				
1,3,5-Trimethylbenzene	51.5		"	50.0		103	82-126				
1,3-Dichlorobenzene	49.6		"	50.0		99.2	84-124				
1,4-Dichlorobenzene	48.7		"	50.0		97.3	84-124				
1,4-Dioxane	435		"	1050		41.4	10-228				
2-Butanone	44.1		"	50.0		88.3	58-147				
2-Hexanone	49.3		"	50.0		98.6	70-139				
4-Methyl-2-pentanone	51.6		"	50.0		103	72-132				
Acetone	35.8		"	50.0		71.6	36-155				
Acrolein	46.9		"	50.0		93.8	10-238				
Acrylonitrile	48.9		"	50.0		97.9	66-141				
Benzene	46.8		"	50.0		93.7	77-127				
Bromochloromethane	48.9		"	50.0		97.9	74-129				
Bromodichloromethane	46.2		"	50.0		92.3	81-124				
Bromoform	40.6		"	50.0		81.1	80-136				
Bromomethane	49.9		"	50.0		99.8	32-177				
Carbon disulfide	50.9		"	50.0		102	10-136				
Carbon tetrachloride	43.5		"	50.0		87.1	66-143				
Chlorobenzene	48.1		"	50.0		96.2	86-120				
Chloroethane	51.5		"	50.0		103	51-142				
Chloroform	45.3		"	50.0		90.5	76-131				
Chloromethane	57.6		"	50.0		115	49-132				
cis-1,2-Dichloroethylene	46.7		"	50.0		93.5	74-132				
cis-1,3-Dichloropropylene	44.6		"	50.0		89.3	81-129				
Cyclohexane	48.2		"	50.0		96.4	70-130				
Dibromochloromethane	43.4		"	50.0		86.7	10-200				
Dibromomethane	49.5		"	50.0		99.0	83-124				
Dichlorodifluoromethane	67.0		"	50.0		134	28-158				
Ethyl Benzene	53.0		"	50.0		106	84-125				
Hexachlorobutadiene	47.6		"	50.0		95.3	83-133				
Isopropylbenzene	49.6		"	50.0		99.1	81-127				
Methyl acetate	44.3		"	50.0		88.6	41-143				
Methyl tert-butyl ether (MTBE)	43.2		"	50.0		86.4	74-131				
Methylcyclohexane	45.9		"	50.0		91.8	70-130				
Methylene chloride	47.5		"	50.0		94.9	57-141				



**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
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**Batch BL30387 - EPA 5035A**

**LCS (BL30387-BS1)**

Prepared & Analyzed: 12/07/2023

n-Butylbenzene	53.0		ug/L	50.0		106	80-130				
n-Propylbenzene	51.1		"	50.0		102	74-136				
o-Xylene	50.6		"	50.0		101	83-123				
p- & m- Xylenes	108		"	100		108	82-128				
p-Isopropyltoluene	52.6		"	50.0		105	85-125				
sec-Butylbenzene	50.2		"	50.0		100	83-125				
Styrene	50.6		"	50.0		101	86-126				
tert-Butyl alcohol (TBA)	209		"	250		83.7	70-130				
tert-Butylbenzene	48.6		"	50.0		97.2	80-127				
Tetrachloroethylene	31.5		"	50.0		62.9	80-129	Low Bias			
Toluene	49.5		"	50.0		98.9	85-121				
trans-1,2-Dichloroethylene	47.6		"	50.0		95.3	72-132				
trans-1,3-Dichloropropylene	44.2		"	50.0		88.4	78-132				
Trichloroethylene	48.5		"	50.0		97.1	84-123				
Trichlorofluoromethane	54.0		"	50.0		108	62-140				
Vinyl Chloride	53.8		"	50.0		108	52-130				

Surrogate: SURR: 1,2-Dichloroethane-d4

52.4

"

50.0

105

77-125

Surrogate: SURR: Toluene-d8

52.0

"

50.0

104

85-120

Surrogate: SURR: p-Bromofluorobenzene

49.9

"

50.0

99.8

76-130

**LCS Dup (BL30387-BSD1)**

Prepared & Analyzed: 12/07/2023

1,1,1,2-Tetrachloroethane	47.7		ug/L	50.0		95.3	75-129	8.69	30		
1,1,1-Trichloroethane	50.7		"	50.0		101	71-137	8.08	30		
1,1,2,2-Tetrachloroethane	58.7		"	50.0		117	79-129	9.24	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.4		"	50.0		101	58-146	7.80	30		
1,1,2-Trichloroethane	51.3		"	50.0		103	83-123	8.80	30		
1,1-Dichloroethane	48.9		"	50.0		97.7	75-130	7.19	30		
1,1-Dichloroethylene	54.5		"	50.0		109	64-137	6.59	30		
1,2,3-Trichlorobenzene	49.0		"	50.0		97.9	81-140	8.72	30		
1,2,3-Trichloropropane	54.6		"	50.0		109	81-126	8.96	30		
1,2,4-Trichlorobenzene	49.4		"	50.0		98.8	80-141	7.47	30		
1,2,4-Trimethylbenzene	56.3		"	50.0		113	84-125	7.50	30		
1,2-Dibromo-3-chloropropane	51.4		"	50.0		103	74-142	14.3	30		
1,2-Dibromoethane	53.5		"	50.0		107	86-123	8.60	30		
1,2-Dichlorobenzene	53.3		"	50.0		107	85-122	7.45	30		
1,2-Dichloroethane	51.9		"	50.0		104	71-133	7.33	30		
1,2-Dichloropropane	53.7		"	50.0		107	81-122	7.51	30		
1,3,5-Trimethylbenzene	55.6		"	50.0		111	82-126	7.66	30		
1,3-Dichlorobenzene	53.9		"	50.0		108	84-124	8.23	30		
1,4-Dichlorobenzene	52.7		"	50.0		105	84-124	7.89	30		
1,4-Dioxane	481		"	1050		45.8	10-228	10.1	30		
2-Butanone	48.3		"	50.0		96.6	58-147	9.00	30		
2-Hexanone	54.6		"	50.0		109	70-139	10.2	30		
4-Methyl-2-pentanone	57.6		"	50.0		115	72-132	11.0	30		
Acetone	38.3		"	50.0		76.7	36-155	6.77	30		
Acrolein	52.1		"	50.0		104	10-238	10.6	30		
Acrylonitrile	53.6		"	50.0		107	66-141	9.07	30		
Benzene	50.3		"	50.0		101	77-127	7.10	30		
Bromochloromethane	52.2		"	50.0		104	74-129	6.39	30		
Bromodichloromethane	50.0		"	50.0		99.9	81-124	7.91	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
<b>Batch BL30387 - EPA 5035A</b>											
<b>LCS Dup (BL30387-BSD1)</b>											
Prepared & Analyzed: 12/07/2023											
Bromoform	45.4		ug/L	50.0		90.8	80-136		11.3	30	
Bromomethane	53.9		"	50.0		108	32-177		7.74	30	
Carbon disulfide	54.8		"	50.0		110	10-136		7.51	30	
Carbon tetrachloride	47.1		"	50.0		94.1	66-143		7.79	30	
Chlorobenzene	52.1		"	50.0		104	86-120		7.99	30	
Chloroethane	55.3		"	50.0		111	51-142		7.11	30	
Chloroform	48.8		"	50.0		97.5	76-131		7.40	30	
Chloromethane	60.4		"	50.0		121	49-132		4.82	30	
cis-1,2-Dichloroethylene	50.2		"	50.0		100	74-132		7.08	30	
cis-1,3-Dichloropropylene	48.6		"	50.0		97.3	81-129		8.58	30	
Cyclohexane	51.6		"	50.0		103	70-130		6.84	30	
Dibromochloromethane	47.7		"	50.0		95.3	10-200		9.49	30	
Dibromomethane	53.8		"	50.0		108	83-124		8.27	30	
Dichlorodifluoromethane	70.9		"	50.0		142	28-158		5.58	30	
Ethyl Benzene	57.3		"	50.0		115	84-125		7.65	30	
Hexachlorobutadiene	52.4		"	50.0		105	83-133		9.46	30	
Isopropylbenzene	53.6		"	50.0		107	81-127		7.93	30	
Methyl acetate	48.0		"	50.0		96.0	41-143		8.01	30	
Methyl tert-butyl ether (MTBE)	47.3		"	50.0		94.5	74-131		8.98	30	
Methylcyclohexane	49.6		"	50.0		99.2	70-130		7.71	30	
Methylene chloride	50.5		"	50.0		101	57-141		6.11	30	
n-Butylbenzene	56.8		"	50.0		114	80-130		7.00	30	
n-Propylbenzene	54.8		"	50.0		110	74-136		6.97	30	
o-Xylene	54.6		"	50.0		109	83-123		7.54	30	
p- & m- Xylenes	116		"	100		116	82-128		7.30	30	
p-Isopropyltoluene	57.0		"	50.0		114	85-125		7.99	30	
sec-Butylbenzene	54.6		"	50.0		109	83-125		8.36	30	
Styrene	54.9		"	50.0		110	86-126		8.08	30	
tert-Butyl alcohol (TBA)	238		"	250		95.2	70-130		12.8	30	
tert-Butylbenzene	52.7		"	50.0		105	80-127		8.13	30	
Tetrachloroethylene	34.3		"	50.0		68.6	80-129	Low Bias	8.61	30	
Toluene	53.2		"	50.0		106	85-121		7.34	30	
trans-1,2-Dichloroethylene	51.1		"	50.0		102	72-132		6.93	30	
trans-1,3-Dichloropropylene	48.1		"	50.0		96.3	78-132		8.51	30	
Trichloroethylene	52.6		"	50.0		105	84-123		8.05	30	
Trichlorofluoromethane	57.2		"	50.0		114	62-140		5.70	30	
Vinyl Chloride	57.1		"	50.0		114	52-130		6.00	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	52.1		"	50.0		104	77-125				
Surrogate: SURRE: Toluene-d8	52.0		"	50.0		104	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	49.9		"	50.0		99.8	76-130				





**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
<b>Batch BL30387 - EPA 5035A</b>											
<b>Matrix Spike (BL30387-MS1)</b>	*Source sample: 23L0105-01 (Matrix Spike)						Prepared & Analyzed: 12/07/2023				
1,1,1,2-Tetrachloroethane	34.1		ug/L	50.0	0.00	68.2	15-161				
1,1,1-Trichloroethane	37.6		"	50.0	0.00	75.2	42-145				
1,1,2,2-Tetrachloroethane	42.3		"	50.0	0.00	84.6	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	34.2		"	50.0	0.00	68.3	11-160				
1,1,2-Trichloroethane	39.6		"	50.0	0.00	79.2	44-145				
1,1-Dichloroethane	38.3		"	50.0	0.00	76.6	46-142				
1,1-Dichloroethylene	39.8		"	50.0	0.00	79.5	30-153				
1,2,3-Trichlorobenzene	20.4		"	50.0	0.00	40.9	10-157				
1,2,3-Trichloropropane	40.9		"	50.0	0.00	81.7	38-155				
1,2,4-Trichlorobenzene	20.8		"	50.0	0.00	41.5	10-151				
1,2,4-Trimethylbenzene	32.9		"	50.0	0.00	65.9	10-170				
1,2-Dibromo-3-chloropropane	33.8		"	50.0	0.00	67.5	36-138				
1,2-Dibromoethane	39.7		"	50.0	0.00	79.5	40-142				
1,2-Dichlorobenzene	32.0		"	50.0	0.00	64.0	10-147				
1,2-Dichloroethane	41.9		"	50.0	0.00	83.7	48-133				
1,2-Dichloropropane	41.9		"	50.0	0.00	83.8	47-141				
1,3,5-Trimethylbenzene	33.5		"	50.0	0.00	67.1	10-150				
1,3-Dichlorobenzene	30.3		"	50.0	0.00	60.6	10-144				
1,4-Dichlorobenzene	29.9		"	50.0	0.00	59.7	10-160				
1,4-Dioxane	382		"	1050	0.00	36.4	10-191				
2-Butanone	36.3		"	50.0	0.00	72.6	10-189				
2-Hexanone	30.8		"	50.0	0.00	61.6	10-181				
4-Methyl-2-pentanone	39.2		"	50.0	0.00	78.5	10-166				
Acetone	33.4		"	50.0	0.00	66.7	10-196				
Acrolein	1.22		"	50.0	0.00	2.44	10-192	Low Bias			
Acrylonitrile	38.0		"	50.0	0.00	76.0	13-161				
Benzene	38.9		"	50.0	0.00	77.7	43-139				
Bromochloromethane	42.1		"	50.0	0.00	84.1	38-145				
Bromodichloromethane	38.1		"	50.0	0.00	76.1	38-147				
Bromoform	30.4		"	50.0	0.00	60.7	29-156				
Bromomethane	39.2		"	50.0	0.00	78.4	10-166				
Carbon disulfide	35.1		"	50.0	0.00	70.2	10-131				
Carbon tetrachloride	33.4		"	50.0	0.00	66.7	35-145				
Chlorobenzene	36.2		"	50.0	0.00	72.5	21-154				
Chloroethane	41.9		"	50.0	0.00	83.8	15-160				
Chloroform	38.5		"	50.0	0.00	76.9	47-142				
Chloromethane	41.0		"	50.0	0.00	82.0	10-159				
cis-1,2-Dichloroethylene	38.7		"	50.0	0.00	77.4	42-144				
cis-1,3-Dichloropropylene	35.6		"	50.0	0.00	71.2	18-159				
Cyclohexane	34.4		"	50.0	0.00	68.9	70-130	Low Bias			
Dibromochloromethane	34.8		"	50.0	0.00	69.5	10-179				
Dibromomethane	41.1		"	50.0	0.00	82.2	47-143				
Dichlorodifluoromethane	33.8		"	50.0	0.00	67.7	10-145				
Ethyl Benzene	38.8		"	50.0	0.00	77.6	11-158				
Hexachlorobutadiene	16.8		"	50.0	0.00	33.5	10-158				
Isopropylbenzene	34.2		"	50.0	0.00	68.3	10-162				
Methyl acetate	45.4		"	50.0	0.00	90.8	10-149				
Methyl tert-butyl ether (MTBE)	37.3		"	50.0	0.00	74.6	42-152				
Methylcyclohexane	28.1		"	50.0	0.00	56.2	70-130	Low Bias			
Methylene chloride	41.7		"	50.0	2.22	78.9	28-151				



**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
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**Batch BL30387 - EPA 5035A**

<b>Matrix Spike (BL30387-MS1)</b>	<b>*Source sample: 23L0105-01 (Matrix Spike)</b>						<b>Prepared &amp; Analyzed: 12/07/2023</b>					
n-Butylbenzene	27.2		ug/L	50.0	0.00	54.5	10-162					
n-Propylbenzene	33.4		"	50.0	0.00	66.9	10-155					
o-Xylene	37.4		"	50.0	0.00	74.8	10-158					
p- & m- Xylenes	76.8		"	100	0.00	76.8	10-156					
p-Isopropyltoluene	28.3		"	50.0	0.00	56.7	10-147					
sec-Butylbenzene	29.1		"	50.0	0.00	58.3	10-157					
Styrene	36.0		"	50.0	0.00	72.1	13-171					
tert-Butyl alcohol (TBA)	179		"	250	0.00	71.7	34-179					
tert-Butylbenzene	31.0		"	50.0	0.00	62.0	10-160					
Tetrachloroethylene	21.7		"	50.0	0.00	43.4	30-167					
Toluene	38.6		"	50.0	0.00	77.3	21-160					
trans-1,2-Dichloroethylene	37.4		"	50.0	0.00	74.9	29-153					
trans-1,3-Dichloropropylene	33.5		"	50.0	0.00	67.0	18-155					
Trichloroethylene	37.6		"	50.0	0.00	75.3	24-169					
Trichlorofluoromethane	41.8		"	50.0	0.00	83.6	35-142					
Vinyl Chloride	40.3		"	50.0	0.00	80.6	12-160					
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>52.9</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>77-125</i>					
<i>Surrogate: SURR: Toluene-d8</i>	<i>51.9</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>					

**Batch BL30498 - EPA 5035A**

<b>Blank (BL30498-BLK1)</b>	<b>Prepared &amp; Analyzed: 12/08/2023</b>										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

**Batch BL30498 - EPA 5035A**

**Blank (BL30498-BLK1)**

Prepared & Analyzed: 12/08/2023

Bromodichloromethane	ND	0.0050	mg/kg wet								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

Surrogate: SURRE: 1,2-Dichloroethane-d4	53.0		ug/L	50.0	106	77-125
Surrogate: SURRE: Toluene-d8	52.8		"	50.0	106	85-120
Surrogate: SURRE: p-Bromofluorobenzene	52.2		"	50.0	104	76-130



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
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Batch BL30498 - EPA 5035A

Blank (BL30498-BLK2)

Prepared & Analyzed: 12/08/2023

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								



**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
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**Batch BL30498 - EPA 5035A**

**Blank (BL30498-BLK2)**

Prepared & Analyzed: 12/08/2023

n-Butylbenzene	ND	0.50	mg/kg wet								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								

<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	52.9		ug/L	50.0		106	77-125				
<i>Surrogate: SURRE: Toluene-d8</i>	53.1		"	50.0		106	85-120				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	52.1		"	50.0		104	76-130				

**LCS (BL30498-BS1)**

Prepared & Analyzed: 12/08/2023

1,1,1,2-Tetrachloroethane	43.7		ug/L	50.0		87.5	75-129				
1,1,1-Trichloroethane	46.7		"	50.0		93.3	71-137				
1,1,2,2-Tetrachloroethane	52.6		"	50.0		105	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.2		"	50.0		92.3	58-146				
1,1,2-Trichloroethane	45.8		"	50.0		91.7	83-123				
1,1-Dichloroethane	45.4		"	50.0		90.9	75-130				
1,1-Dichloroethylene	50.8		"	50.0		102	64-137				
1,2,3-Trichlorobenzene	43.8		"	50.0		87.5	81-140				
1,2,3-Trichloropropane	49.1		"	50.0		98.3	81-126				
1,2,4-Trichlorobenzene	44.7		"	50.0		89.5	80-141				
1,2,4-Trimethylbenzene	52.8		"	50.0		106	84-125				
1,2-Dibromo-3-chloropropane	44.2		"	50.0		88.3	74-142				
1,2-Dibromoethane	47.6		"	50.0		95.1	86-123				
1,2-Dichlorobenzene	49.3		"	50.0		98.5	85-122				
1,2-Dichloroethane	47.8		"	50.0		95.6	71-133				
1,2-Dichloropropane	49.9		"	50.0		99.8	81-122				
1,3,5-Trimethylbenzene	52.3		"	50.0		105	82-126				
1,3-Dichlorobenzene	50.0		"	50.0		100	84-124				
1,4-Dichlorobenzene	48.3		"	50.0		96.5	84-124				
1,4-Dioxane	397		"	1050		37.8	10-228				
2-Butanone	42.5		"	50.0		85.1	58-147				
2-Hexanone	47.6		"	50.0		95.3	70-139				
4-Methyl-2-pentanone	50.6		"	50.0		101	72-132				
Acetone	34.2		"	50.0		68.4	36-155				
Acrolein	45.1		"	50.0		90.1	10-238				
Acrylonitrile	47.1		"	50.0		94.1	66-141				
Benzene	46.5		"	50.0		93.0	77-127				
Bromochloromethane	48.4		"	50.0		96.7	74-129				



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	

**Batch BL30498 - EPA 5035A**

**LCS (BL30498-BS1)**

Prepared & Analyzed: 12/08/2023

Bromodichloromethane	46.1		ug/L	50.0		92.2	81-124				
Bromoform	38.9		"	50.0		77.7	80-136	Low Bias			
Bromomethane	53.6		"	50.0		107	32-177				
Carbon disulfide	49.6		"	50.0		99.1	10-136				
Carbon tetrachloride	44.0		"	50.0		87.9	66-143				
Chlorobenzene	48.1		"	50.0		96.2	86-120				
Chloroethane	53.4		"	50.0		107	51-142				
Chloroform	45.0		"	50.0		90.0	76-131				
Chloromethane	55.8		"	50.0		112	49-132				
cis-1,2-Dichloroethylene	46.5		"	50.0		93.1	74-132				
cis-1,3-Dichloropropylene	44.2		"	50.0		88.4	81-129				
Cyclohexane	48.3		"	50.0		96.5	70-130				
Dibromochloromethane	42.6		"	50.0		85.2	10-200				
Dibromomethane	48.4		"	50.0		96.8	83-124				
Dichlorodifluoromethane	61.4		"	50.0		123	28-158				
Ethyl Benzene	53.6		"	50.0		107	84-125				
Hexachlorobutadiene	48.1		"	50.0		96.2	83-133				
Isopropylbenzene	50.3		"	50.0		101	81-127				
Methyl acetate	42.9		"	50.0		85.9	41-143				
Methyl tert-butyl ether (MTBE)	41.3		"	50.0		82.5	74-131				
Methylcyclohexane	46.0		"	50.0		91.9	70-130				
Methylene chloride	48.9		"	50.0		97.7	57-141				
n-Butylbenzene	54.2		"	50.0		108	80-130				
n-Propylbenzene	52.1		"	50.0		104	74-136				
o-Xylene	50.8		"	50.0		102	83-123				
p- & m- Xylenes	110		"	100		110	82-128				
p-Isopropyltoluene	53.4		"	50.0		107	85-125				
sec-Butylbenzene	51.2		"	50.0		102	83-125				
Styrene	50.3		"	50.0		101	86-126				
tert-Butyl alcohol (TBA)	194		"	250		77.7	70-130				
tert-Butylbenzene	49.3		"	50.0		98.5	80-127				
Tetrachloroethylene	31.4		"	50.0		62.8	80-129	Low Bias			
Toluene	49.6		"	50.0		99.2	85-121				
trans-1,2-Dichloroethylene	47.7		"	50.0		95.4	72-132				
trans-1,3-Dichloropropylene	43.4		"	50.0		86.7	78-132				
Trichloroethylene	48.6		"	50.0		97.2	84-123				
Trichlorofluoromethane	56.0		"	50.0		112	62-140				
Vinyl Chloride	54.6		"	50.0		109	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.6</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>				



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
<b>Batch BL30498 - EPA 5035A</b>											
<b>LCS Dup (BL30498-BSD1)</b>											
Prepared & Analyzed: 12/08/2023											
1,1,1,2-Tetrachloroethane	46.4		ug/L	50.0		92.7	75-129		5.82	30	
1,1,1-Trichloroethane	49.5		"	50.0		99.0	71-137		5.89	30	
1,1,2,2-Tetrachloroethane	56.0		"	50.0		112	79-129		6.28	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49.3		"	50.0		98.6	58-146		6.52	30	
1,1,2-Trichloroethane	49.8		"	50.0		99.5	83-123		8.22	30	
1,1-Dichloroethane	48.0		"	50.0		96.0	75-130		5.50	30	
1,1-Dichloroethylene	53.4		"	50.0		107	64-137		5.07	30	
1,2,3-Trichlorobenzene	46.9		"	50.0		93.8	81-140		6.97	30	
1,2,3-Trichloropropane	52.5		"	50.0		105	81-126		6.57	30	
1,2,4-Trichlorobenzene	47.3		"	50.0		94.6	80-141		5.61	30	
1,2,4-Trimethylbenzene	54.2		"	50.0		108	84-125		2.67	30	
1,2-Dibromo-3-chloropropane	48.1		"	50.0		96.2	74-142		8.54	30	
1,2-Dibromoethane	51.8		"	50.0		104	86-123		8.44	30	
1,2-Dichlorobenzene	51.6		"	50.0		103	85-122		4.70	30	
1,2-Dichloroethane	51.2		"	50.0		102	71-133		6.93	30	
1,2-Dichloropropane	52.4		"	50.0		105	81-122		4.79	30	
1,3,5-Trimethylbenzene	54.0		"	50.0		108	82-126		3.22	30	
1,3-Dichlorobenzene	51.8		"	50.0		104	84-124		3.54	30	
1,4-Dichlorobenzene	50.6		"	50.0		101	84-124		4.77	30	
1,4-Dioxane	450		"	1050		42.9	10-228		12.6	30	
2-Butanone	48.4		"	50.0		96.8	58-147		12.9	30	
2-Hexanone	53.0		"	50.0		106	70-139		10.6	30	
4-Methyl-2-pentanone	55.6		"	50.0		111	72-132		9.50	30	
Acetone	38.3		"	50.0		76.6	36-155		11.2	30	
Acrolein	50.6		"	50.0		101	10-238		11.7	30	
Acrylonitrile	52.2		"	50.0		104	66-141		10.3	30	
Benzene	49.1		"	50.0		98.3	77-127		5.52	30	
Bromochloromethane	51.9		"	50.0		104	74-129		7.04	30	
Bromodichloromethane	48.7		"	50.0		97.4	81-124		5.51	30	
Bromoform	42.8		"	50.0		85.6	80-136		9.62	30	
Bromomethane	54.9		"	50.0		110	32-177		2.38	30	
Carbon disulfide	52.5		"	50.0		105	10-136		5.69	30	
Carbon tetrachloride	46.1		"	50.0		92.2	66-143		4.73	30	
Chlorobenzene	50.7		"	50.0		101	86-120		5.22	30	
Chloroethane	55.6		"	50.0		111	51-142		4.02	30	
Chloroform	47.8		"	50.0		95.7	76-131		6.07	30	
Chloromethane	57.0		"	50.0		114	49-132		2.00	30	
cis-1,2-Dichloroethylene	49.2		"	50.0		98.4	74-132		5.60	30	
cis-1,3-Dichloropropylene	47.1		"	50.0		94.2	81-129		6.33	30	
Cyclohexane	50.4		"	50.0		101	70-130		4.30	30	
Dibromochloromethane	45.7		"	50.0		91.5	10-200		7.16	30	
Dibromomethane	52.5		"	50.0		105	83-124		8.16	30	
Dichlorodifluoromethane	61.3		"	50.0		123	28-158		0.0815	30	
Ethyl Benzene	56.0		"	50.0		112	84-125		4.27	30	
Hexachlorobutadiene	50.8		"	50.0		102	83-133		5.44	30	
Isopropylbenzene	52.0		"	50.0		104	81-127		3.36	30	
Methyl acetate	47.3		"	50.0		94.7	41-143		9.75	30	
Methyl tert-butyl ether (MTBE)	45.4		"	50.0		90.8	74-131		9.60	30	
Methylcyclohexane	47.7		"	50.0		95.4	70-130		3.74	30	
Methylene chloride	51.4		"	50.0		103	57-141		5.05	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
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**Batch BL30498 - EPA 5035A**

**LCS Dup (BL30498-BSD1)**

Prepared & Analyzed: 12/08/2023

n-Butylbenzene	55.1		ug/L	50.0		110	80-130		1.72	30	
n-Propylbenzene	53.3		"	50.0		107	74-136		2.43	30	
o-Xylene	53.3		"	50.0		107	83-123		4.78	30	
p- & m- Xylenes	114		"	100		114	82-128		3.88	30	
p-Isopropyltoluene	55.0		"	50.0		110	85-125		2.97	30	
sec-Butylbenzene	52.4		"	50.0		105	83-125		2.47	30	
Styrene	53.0		"	50.0		106	86-126		5.17	30	
tert-Butyl alcohol (TBA)	224		"	250		89.6	70-130		14.2	30	
tert-Butylbenzene	51.1		"	50.0		102	80-127		3.57	30	
Tetrachloroethylene	33.1		"	50.0		66.2	80-129	Low Bias	5.21	30	
Toluene	51.9		"	50.0		104	85-121		4.59	30	
trans-1,2-Dichloroethylene	50.2		"	50.0		100	72-132		5.01	30	
trans-1,3-Dichloropropylene	46.8		"	50.0		93.7	78-132		7.67	30	
Trichloroethylene	51.0		"	50.0		102	84-123		4.92	30	
Trichlorofluoromethane	57.7		"	50.0		115	62-140		2.89	30	
Vinyl Chloride	56.5		"	50.0		113	52-130		3.33	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>53.0</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.1</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.4</i>	<i>76-130</i>				



Semivolatile 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
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Batch BL30084 - EPA 3510C/1311

Blank (BL30084-BLK1)

Prepared: 12/03/2023 Analyzed: 12/04/2023

1,4-Dichlorobenzene	ND	0.00500	mg/L								
2,4,5-Trichlorophenol	ND	0.00500	"								
2,4,6-Trichlorophenol	ND	0.00500	"								
2,4-Dinitrotoluene	ND	0.00500	"								
2-Methylphenol	ND	0.00500	"								
3- & 4-Methylphenols	ND	0.0100	"								
Cresols, total	ND	0.0150	"								
Hexachlorobenzene	ND	0.00500	"								
Hexachlorobutadiene	ND	0.00500	"								
Hexachloroethane	ND	0.00500	"								
Nitrobenzene	ND	0.00500	"								
Pentachlorophenol	ND	0.00500	"								
Pyridine	ND	0.00500	"								

Surrogate: SURRE: 2-Fluorophenol	0.0257		"	0.0500		51.4	10-90.9				
Surrogate: SURRE: Phenol-d6	0.0182		"	0.0500		36.4	10-69.2				
Surrogate: SURRE: Nitrobenzene-d5	0.0178		"	0.0250		71.4	19.2-141				
Surrogate: SURRE: 2-Fluorobiphenyl	0.0202		"	0.0250		80.8	24.8-127				
Surrogate: SURRE: 2,4,6-Tribromophenol	0.0582		"	0.0500		116	23-163				
Surrogate: SURRE: Terphenyl-d14	0.0252		"	0.0250		101	25.8-110				

LCS (BL30084-BS1)

Prepared: 12/03/2023 Analyzed: 12/05/2023

1,4-Dichlorobenzene	0.0188	0.00500	mg/L	0.0250		75.4	42.7-102				
2,4,5-Trichlorophenol	0.0280	0.00500	"	0.0250		112	33-141				
2,4,6-Trichlorophenol	0.0288	0.00500	"	0.0250		115	35-138				
2,4-Dinitrotoluene	0.0290	0.00500	"	0.0250		116	38.6-153				
2-Methylphenol	0.0217	0.00500	"	0.0250		86.7	34.7-106				
3- & 4-Methylphenols	0.0180	0.0100	"	0.0250		72.2	30.1-94				
Cresols, total	0.0397	0.0150	"	0.0500		79.4	30.1-106				
Hexachlorobenzene	0.0254	0.00500	"	0.0250		102	38.9-109				
Hexachlorobutadiene	0.0193	0.00500	"	0.0250		77.4	24.3-132				
Hexachloroethane	0.0173	0.00500	"	0.0250		69.4	36.7-102				
Nitrobenzene	0.0246	0.00500	"	0.0250		98.5	33.3-122				
Pentachlorophenol	0.0372	0.00500	"	0.0250		149	22.2-137			High Bias	
Pyridine	ND	0.00500	"	0.0350			14.9-73.5			Low Bias	

Surrogate: SURRE: 2-Fluorophenol	0.0336		"	0.0500		67.3	10-90.9				
Surrogate: SURRE: Phenol-d6	0.0207		"	0.0500		41.4	10-69.2				
Surrogate: SURRE: Nitrobenzene-d5	0.0225		"	0.0250		90.0	19.2-141				
Surrogate: SURRE: 2-Fluorobiphenyl	0.0195		"	0.0250		78.0	24.8-127				
Surrogate: SURRE: 2,4,6-Tribromophenol	0.0658		"	0.0500		132	23-163				
Surrogate: SURRE: Terphenyl-d14	0.0241		"	0.0250		96.4	25.8-110				



Semivolatile 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
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Batch BL30084 - EPA 3510C/1311

LCS Dup (BL30084-BSD1)

Prepared: 12/03/2023 Analyzed: 12/04/2023

1,4-Dichlorobenzene	0.0177	0.00500	mg/L	0.0250		70.9	42.7-102		6.07	21.2	
2,4,5-Trichlorophenol	0.0256	0.00500	"	0.0250		103	33-141		8.76	22.9	
2,4,6-Trichlorophenol	0.0263	0.00500	"	0.0250		105	35-138		9.22	23.4	
2,4-Dinitrotoluene	0.0308	0.00500	"	0.0250		123	38.6-153		6.03	24.8	
2-Methylphenol	0.0186	0.00500	"	0.0250		74.2	34.7-106		15.5	25.9	
3- & 4-Methylphenols	0.0160	0.0100	"	0.0250		64.0	30.1-94		12.0	24.9	
Cresols, total	0.0346	0.0150	"	0.0500		69.1	30.1-106		13.9	25.9	
Hexachlorobenzene	0.0214	0.00500	"	0.0250		85.7	38.9-109		17.0	27.1	
Hexachlorobutadiene	0.0197	0.00500	"	0.0250		78.8	24.3-132		1.79	22	
Hexachloroethane	0.0167	0.00500	"	0.0250		66.9	36.7-102		3.58	20.4	
Nitrobenzene	0.0182	0.00500	"	0.0250		72.7	33.3-122		30.1	24.1	Non-dir.
Pentachlorophenol	0.0238	0.00500	"	0.0250		95.1	22.2-137		44.1	36.9	Non-dir.
Pyridine	ND	0.00500	"	0.0350			14.9-73.5	Low Bias		50	

Surrogate: SURRE: 2-Fluorophenol

0.0243

"

0.0500

48.6

10-90.9

Surrogate: SURRE: Phenol-d6

0.0179

"

0.0500

35.7

10-69.2

Surrogate: SURRE: Nitrobenzene-d5

0.0166

"

0.0250

66.4

19.2-141

Surrogate: SURRE: 2-Fluorobiphenyl

0.0182

"

0.0250

73.0

24.8-127

Surrogate: SURRE: 2,4,6-Tribromophenol

0.0542

"

0.0500

108

23-163

Surrogate: SURRE: Terphenyl-d14

0.0217

"

0.0250

86.9

25.8-110

Leach Fluid Blank (BL30084-LBK1)

Prepared: 12/03/2023 Analyzed: 12/04/2023

1,4-Dichlorobenzene	ND	0.00500	mg/L								
2,4,5-Trichlorophenol	ND	0.00500	"								
2,4,6-Trichlorophenol	ND	0.00500	"								
2,4-Dinitrotoluene	ND	0.00500	"								
2-Methylphenol	ND	0.00500	"								
3- & 4-Methylphenols	ND	0.0100	"								
Cresols, total	ND	0.0150	"								
Hexachlorobenzene	ND	0.00500	"								
Hexachlorobutadiene	ND	0.00500	"								
Hexachloroethane	ND	0.00500	"								
Nitrobenzene	ND	0.00500	"								
Pentachlorophenol	ND	0.00500	"								
Pyridine	ND	0.00500	"								

Surrogate: SURRE: 2-Fluorophenol

0.0230

"

0.0500

46.0

10-90.9

Surrogate: SURRE: Phenol-d6

0.0164

"

0.0500

32.7

10-69.2

Surrogate: SURRE: Nitrobenzene-d5

0.0150

"

0.0250

59.8

19.2-141

Surrogate: SURRE: 2-Fluorobiphenyl

0.0172

"

0.0250

68.7

24.8-127

Surrogate: SURRE: 2,4,6-Tribromophenol

0.0547

"

0.0500

109

23-163

Surrogate: SURRE: Terphenyl-d14

0.0238

"

0.0250

95.4

25.8-110



Semivolatile 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
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Batch BL30084 - EPA 3510C/1311

Matrix Spike (BL30084-MS1)	*Source sample: 23K1898-29 (Matrix Spike)						Prepared: 12/03/2023 Analyzed: 12/04/2023	
1,4-Dichlorobenzene	0.0176	0.00500	mg/L	0.0250	ND	70.2	26-95	
2,4,5-Trichlorophenol	0.0265	0.00500	"	0.0250	ND	106	44-96	High Bias
2,4,6-Trichlorophenol	0.0273	0.00500	"	0.0250	ND	109	39-107	High Bias
2,4-Dinitrotoluene	0.0316	0.00500	"	0.0250	ND	127	26-120	High Bias
2-Methylphenol	0.0194	0.00500	"	0.0250	ND	77.8	10-118	
3- & 4-Methylphenols	0.0164	0.0100	"	0.0250	ND	65.6	10-102	
Cresols, total	0.0358	0.0150	"	0.0500	ND	71.7	30-130	
Hexachlorobenzene	0.0227	0.00500	"	0.0250	ND	90.8	24-120	
Hexachlorobutadiene	0.0196	0.00500	"	0.0250	ND	78.5	26-98	
Hexachloroethane	0.0169	0.00500	"	0.0250	ND	67.8	11-102	
Nitrobenzene	0.0196	0.00500	"	0.0250	ND	78.2	25-107	
Pentachlorophenol	0.0283	0.00500	"	0.0250	ND	113	10-181	
Pyridine	0.0101	0.00500	"	0.0350	ND	29.0	10-73	
Surrogate: SURR: 2-Fluorophenol	0.0284		"	0.0500		56.9	10-90.9	
Surrogate: SURR: Phenol-d6	0.0222		"	0.0500		44.4	10-69.2	
Surrogate: SURR: Nitrobenzene-d5	0.0192		"	0.0250		76.9	19.2-141	
Surrogate: SURR: 2-Fluorobiphenyl	0.0206		"	0.0250		82.3	24.8-127	
Surrogate: SURR: 2,4,6-Tribromophenol	0.0642		"	0.0500		128	23-163	
Surrogate: SURR: Terphenyl-d14	0.0250		"	0.0250		100	25.8-110	

Batch BL30088 - EPA 3550C

Matrix Spike (BL30088-MS1)	*Source sample: 23K1784-03 (Matrix Spike)						Prepared: 12/03/2023 Analyzed: 12/05/2023	
1,1-Biphenyl	0.398	0.0856	mg/kg dry	0.855	ND	46.6	10-130	
1,2,4,5-Tetrachlorobenzene	0.432	0.171	"	0.855	ND	50.6	10-133	
1,2,4-Trichlorobenzene	0.458	0.0856	"	0.855	ND	53.5	10-127	
1,2-Dichlorobenzene	0.445	0.0856	"	0.855	ND	52.0	14-111	
1,2-Diphenylhydrazine (as Azobenzene)	0.410	0.0856	"	0.855	ND	47.9	10-144	
1,3-Dichlorobenzene	0.431	0.0856	"	0.855	ND	50.4	11-111	
1,4-Dichlorobenzene	0.435	0.0856	"	0.855	ND	50.8	10-106	
2,3,4,6-Tetrachlorophenol	0.522	0.171	"	0.855	ND	61.0	30-130	
2,4,5-Trichlorophenol	0.482	0.0856	"	0.855	ND	56.3	10-127	
2,4,6-Trichlorophenol	0.460	0.0856	"	0.855	ND	53.8	10-132	
2,4-Dichlorophenol	0.497	0.0856	"	0.855	ND	58.1	10-128	
2,4-Dimethylphenol	0.355	0.0856	"	0.855	ND	41.5	10-137	
2,4-Dinitrophenol	ND	0.171	"	0.855	ND		10-171	Low Bias
2,4-Dinitrotoluene	0.328	0.0856	"	0.855	ND	38.4	16-135	
2,6-Dinitrotoluene	0.356	0.0856	"	0.855	ND	41.6	18-131	
2-Chloronaphthalene	0.420	0.0856	"	0.855	ND	49.1	10-129	
2-Chlorophenol	0.463	0.0856	"	0.855	ND	54.1	15-116	
2-Methylnaphthalene	0.473	0.0856	"	0.855	ND	55.3	10-147	
2-Methylphenol	0.425	0.0856	"	0.855	ND	49.7	10-136	
2-Nitroaniline	0.532	0.171	"	0.855	ND	62.2	10-137	
2-Nitrophenol	0.271	0.0856	"	0.855	ND	31.7	10-129	
3- & 4-Methylphenols	0.425	0.0856	"	0.855	ND	49.7	10-123	
3,3-Dichlorobenzidine	0.448	0.0856	"	0.855	ND	52.3	10-155	
3-Nitroaniline	0.556	0.171	"	0.855	ND	65.0	12-133	
4,6-Dinitro-2-methylphenol	ND	0.171	"	0.855	ND		10-155	Low Bias
4-Bromophenyl phenyl ether	0.386	0.0856	"	0.855	ND	45.1	14-128	
4-Chloro-3-methylphenol	0.574	0.0856	"	0.855	ND	67.1	10-134	
4-Chloroaniline	0.421	0.0856	"	0.855	ND	49.2	10-145	



Semivolatile 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	
<b>Batch BL30088 - EPA 3550C</b>												
<b>Matrix Spike (BL30088-MS1)</b>	*Source sample: 23K1784-03 (Matrix Spike)						Prepared: 12/03/2023 Analyzed: 12/05/2023					
4-Chlorophenyl phenyl ether	0.430	0.0856	mg/kg dry	0.855	ND	50.2	14-130					
4-Nitroaniline	0.592	0.171	"	0.855	ND	69.2	10-147					
4-Nitrophenol	0.470	0.171	"	0.855	ND	55.0	10-137					
Acenaphthene	0.398	0.0856	"	0.855	ND	46.5	10-146					
Acenaphthylene	0.427	0.0856	"	0.855	ND	49.9	10-134					
Acetophenone	0.506	0.0856	"	0.855	ND	59.1	10-116					
Aniline	0.369	0.343	"	0.855	ND	43.1	10-123					
Anthracene	0.430	0.0856	"	0.855	ND	50.2	10-142					
Atrazine	0.446	0.0856	"	0.855	ND	52.2	19-115					
Benzaldehyde	0.430	0.0856	"	0.855	ND	50.2	10-125					
Benzo(a)anthracene	0.476	0.0856	"	0.855	ND	55.6	10-158					
Benzo(a)pyrene	0.404	0.0856	"	0.855	ND	47.2	10-180					
Benzo(b)fluoranthene	0.415	0.0856	"	0.855	ND	48.6	10-200					
Benzo(g,h,i)perylene	0.386	0.0856	"	0.855	ND	45.1	10-138					
Benzo(k)fluoranthene	0.418	0.0856	"	0.855	ND	48.9	10-197					
Benzoic acid	0.523	0.0856	"	0.855	ND	61.2	10-166					
Benzyl alcohol	0.475	0.0856	"	0.855	ND	55.5	12-124					
Benzyl butyl phthalate	0.470	0.0856	"	0.855	ND	55.0	10-154					
Bis(2-chloroethoxy)methane	0.495	0.0856	"	0.855	ND	57.9	10-132					
Bis(2-chloroethyl)ether	0.474	0.0856	"	0.855	ND	55.4	10-119					
Bis(2-chloroisopropyl)ether	0.541	0.0856	"	0.855	ND	63.3	10-139					
Bis(2-ethylhexyl)phthalate	0.489	0.0856	"	0.855	ND	57.1	10-167					
Caprolactam	0.632	0.171	"	0.855	ND	73.9	10-132					
Carbazole	0.442	0.0856	"	0.855	ND	51.7	10-167					
Chrysene	0.449	0.0856	"	0.855	ND	52.5	10-156					
Dibenzo(a,h)anthracene	0.440	0.0856	"	0.855	ND	51.4	10-137					
Dibenzofuran	0.430	0.0856	"	0.855	ND	50.2	10-147					
Diethyl phthalate	0.408	0.0856	"	0.855	ND	47.7	20-120					
Dimethyl phthalate	0.402	0.0856	"	0.855	ND	47.0	18-131					
Di-n-butyl phthalate	0.446	0.0856	"	0.855	ND	52.2	10-137					
Di-n-octyl phthalate	0.534	0.0856	"	0.855	ND	62.5	10-180					
Fluoranthene	0.465	0.0856	"	0.855	ND	54.4	10-160					
Fluorene	0.428	0.0856	"	0.855	ND	50.1	10-157					
Hexachlorobenzene	0.410	0.0856	"	0.855	ND	47.9	10-137					
Hexachlorobutadiene	0.462	0.0856	"	0.855	ND	54.0	10-132					
Hexachlorocyclopentadiene	ND	0.0856	"	0.855	ND		10-106	Low Bias				
Hexachloroethane	0.289	0.0856	"	0.855	ND	33.8	10-110					
Indeno(1,2,3-cd)pyrene	0.455	0.0856	"	0.855	ND	53.2	10-144					
Isophorone	0.502	0.0856	"	0.855	ND	58.6	10-132					
Naphthalene	0.464	0.0856	"	0.855	ND	54.2	10-141					
Nitrobenzene	0.502	0.0856	"	0.855	ND	58.6	10-131					
N-Nitrosodimethylamine	0.493	0.0856	"	0.855	ND	57.7	10-126					
N-nitroso-di-n-propylamine	0.461	0.0856	"	0.855	ND	53.9	10-125					
N-Nitrosodiphenylamine	0.406	0.0856	"	0.855	ND	47.5	10-177					
Pentachlorophenol	0.372	0.0856	"	0.855	ND	43.4	10-153					
Phenanthrene	0.432	0.0856	"	0.855	ND	50.6	10-148					
Phenol	0.535	0.0856	"	0.855	ND	62.6	10-126					
Pyrene	0.481	0.0856	"	0.855	ND	56.2	10-165					
Pyridine	0.388	0.343	"	0.855	ND	45.4	10-83					
Surrogate: SURR: 2-Fluorophenol	1.10		"	1.71		64.4	20-108					
Surrogate: SURR: Phenol-d6	1.10		"	1.71		64.4	23-114					



Semivolatile 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	
<b>Batch BL30088 - EPA 3550C</b>												
<b>Matrix Spike (BL30088-MS1)</b>		*Source sample: 23K1784-03 (Matrix Spike)						Prepared: 12/03/2023 Analyzed: 12/05/2023				
Surrogate: SURR: Nitrobenzene-d5	0.499		mg/kg dry	0.855		58.3	22-108					
Surrogate: SURR: 2-Fluorobiphenyl	0.439		"	0.855		51.4	21-113					
Surrogate: SURR: 2,4,6-Tribromophenol	0.903		"	1.71		52.8	19-110					
Surrogate: SURR: Terphenyl-d14	0.499		"	0.855		58.3	24-116					
<b>Matrix Spike Dup (BL30088-MSD1)</b>		*Source sample: 23K1784-03 (Matrix Spike Dup)						Prepared: 12/03/2023 Analyzed: 12/05/2023				
1,1-Biphenyl	0.539	0.0856	mg/kg dry	0.855	ND	63.0	10-130		29.9	30		
1,2,4,5-Tetrachlorobenzene	0.587	0.171	"	0.855	ND	68.6	10-133		30.3	30	Non-dir.	
1,2,4-Trichlorobenzene	0.593	0.0856	"	0.855	ND	69.3	10-127		25.7	30		
1,2-Dichlorobenzene	0.582	0.0856	"	0.855	ND	68.0	14-111		26.7	30		
1,2-Diphenylhydrazine (as Azobenzene)	0.567	0.0856	"	0.855	ND	66.3	10-144		32.2	30	Non-dir.	
1,3-Dichlorobenzene	0.570	0.0856	"	0.855	ND	66.6	11-111		27.8	30		
1,4-Dichlorobenzene	0.565	0.0856	"	0.855	ND	66.0	10-106		26.0	30		
2,3,4,6-Tetrachlorophenol	0.737	0.171	"	0.855	ND	86.2	30-130		34.1	30	Non-dir.	
2,4,5-Trichlorophenol	0.643	0.0856	"	0.855	ND	75.2	10-127		28.7	30		
2,4,6-Trichlorophenol	0.616	0.0856	"	0.855	ND	72.0	10-132		29.0	30		
2,4-Dichlorophenol	0.664	0.0856	"	0.855	ND	77.7	10-128		28.9	30		
2,4-Dimethylphenol	0.459	0.0856	"	0.855	ND	53.7	10-137		25.5	30		
2,4-Dinitrophenol	ND	0.171	"	0.855	ND		10-171	Low Bias		30		
2,4-Dinitrotoluene	0.458	0.0856	"	0.855	ND	53.6	16-135		33.0	30	Non-dir.	
2,6-Dinitrotoluene	0.503	0.0856	"	0.855	ND	58.8	18-131		34.3	30	Non-dir.	
2-Chloronaphthalene	0.563	0.0856	"	0.855	ND	65.8	10-129		29.1	30		
2-Chlorophenol	0.606	0.0856	"	0.855	ND	70.8	15-116		26.8	30		
2-Methylnaphthalene	0.614	0.0856	"	0.855	ND	71.8	10-147		26.1	30		
2-Methylphenol	0.560	0.0856	"	0.855	ND	65.4	10-136		27.4	30		
2-Nitroaniline	0.692	0.171	"	0.855	ND	80.9	10-137		26.0	30		
2-Nitrophenol	0.376	0.0856	"	0.855	ND	43.9	10-129		32.4	30	Non-dir.	
3- & 4-Methylphenols	0.560	0.0856	"	0.855	ND	65.4	10-123		27.4	30		
3,3-Dichlorobenzidine	0.634	0.0856	"	0.855	ND	74.2	10-155		34.5	30	Non-dir.	
3-Nitroaniline	0.757	0.171	"	0.855	ND	88.5	12-133		30.7	30	Non-dir.	
4,6-Dinitro-2-methylphenol	ND	0.171	"	0.855	ND		10-155	Low Bias		30		
4-Bromophenyl phenyl ether	0.516	0.0856	"	0.855	ND	60.3	14-128		28.8	30		
4-Chloro-3-methylphenol	0.703	0.0856	"	0.855	ND	82.2	10-134		20.2	30		
4-Chloroaniline	0.540	0.0856	"	0.855	ND	63.1	10-145		24.8	30		
4-Chlorophenyl phenyl ether	0.562	0.0856	"	0.855	ND	65.8	14-130		26.8	30		
4-Nitroaniline	0.758	0.171	"	0.855	ND	88.6	10-147		24.6	30		
4-Nitrophenol	0.627	0.171	"	0.855	ND	73.3	10-137		28.6	30		
Acenaphthene	0.530	0.0856	"	0.855	ND	62.0	10-146		28.6	30		
Acenaphthylene	0.573	0.0856	"	0.855	ND	67.0	10-134		29.2	30		
Acetophenone	0.662	0.0856	"	0.855	ND	77.4	10-116		26.7	30		
Aniline	0.470	0.343	"	0.855	ND	55.0	10-123		24.1	30		
Anthracene	0.582	0.0856	"	0.855	ND	68.0	10-142		30.0	30		
Atrazine	0.590	0.0856	"	0.855	ND	69.0	19-115		27.7	30		
Benzaldehyde	0.565	0.0856	"	0.855	ND	66.1	10-125		27.2	30		
Benzo(a)anthracene	0.638	0.0856	"	0.855	ND	74.6	10-158		29.1	30		
Benzo(a)pyrene	0.587	0.0856	"	0.855	ND	68.6	10-180		37.0	30	Non-dir.	
Benzo(b)fluoranthene	0.593	0.0856	"	0.855	ND	69.3	10-200		35.2	30	Non-dir.	
Benzo(g,h,i)perylene	0.510	0.0856	"	0.855	ND	59.6	10-138		27.7	30		
Benzo(k)fluoranthene	0.588	0.0856	"	0.855	ND	68.8	10-197		33.9	30	Non-dir.	
Benzoic acid	0.277	0.0856	"	0.855	ND	32.4	10-166		61.5	30	Non-dir.	
Benzyl alcohol	0.618	0.0856	"	0.855	ND	72.2	12-124		26.2	30		



Semivolatile 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
<b>Batch BL30088 - EPA 3550C</b>											
<b>Matrix Spike Dup (BL30088-MSD1)</b>	*Source sample: 23K1784-03 (Matrix Spike Dup)						Prepared: 12/03/2023 Analyzed: 12/05/2023				
Benzyl butyl phthalate	0.633	0.0856	mg/kg dry	0.855	ND	74.0	10-154		29.5	30	
Bis(2-chloroethoxy)methane	0.625	0.0856	"	0.855	ND	73.1	10-132		23.2	30	
Bis(2-chloroethyl)ether	0.641	0.0856	"	0.855	ND	75.0	10-119		29.9	30	
Bis(2-chloroisopropyl)ether	0.711	0.0856	"	0.855	ND	83.1	10-139		27.1	30	
Bis(2-ethylhexyl)phthalate	0.664	0.0856	"	0.855	ND	77.6	10-167		30.4	30	Non-dir.
Caprolactam	0.807	0.171	"	0.855	ND	94.3	10-132		24.3	30	
Carbazole	0.612	0.0856	"	0.855	ND	71.5	10-167		32.2	30	Non-dir.
Chrysene	0.609	0.0856	"	0.855	ND	71.2	10-156		30.3	30	Non-dir.
Dibenzo(a,h)anthracene	0.588	0.0856	"	0.855	ND	68.8	10-137		28.9	30	
Dibenzofuran	0.581	0.0856	"	0.855	ND	67.9	10-147		29.9	30	
Diethyl phthalate	0.543	0.0856	"	0.855	ND	63.4	20-120		28.4	30	
Dimethyl phthalate	0.546	0.0856	"	0.855	ND	63.8	18-131		30.5	30	Non-dir.
Di-n-butyl phthalate	0.608	0.0856	"	0.855	ND	71.0	10-137		30.6	30	Non-dir.
Di-n-octyl phthalate	0.723	0.0856	"	0.855	ND	84.5	10-180		29.9	30	
Fluoranthene	0.631	0.0856	"	0.855	ND	73.8	10-160		30.2	30	Non-dir.
Fluorene	0.580	0.0856	"	0.855	ND	67.8	10-157		30.0	30	
Hexachlorobenzene	0.543	0.0856	"	0.855	ND	63.5	10-137		28.0	30	
Hexachlorobutadiene	0.588	0.0856	"	0.855	ND	68.7	10-132		24.0	30	
Hexachlorocyclopentadiene	ND	0.0856	"	0.855	ND		10-106	Low Bias		30	
Hexachloroethane	0.377	0.0856	"	0.855	ND	44.1	10-110		26.3	30	
Indeno(1,2,3-cd)pyrene	0.584	0.0856	"	0.855	ND	68.3	10-144		24.9	30	
Isophorone	0.652	0.0856	"	0.855	ND	76.2	10-132		26.1	30	
Naphthalene	0.613	0.0856	"	0.855	ND	71.7	10-141		27.7	30	
Nitrobenzene	0.652	0.0856	"	0.855	ND	76.2	10-131		26.1	30	
N-Nitrosodimethylamine	0.667	0.0856	"	0.855	ND	78.0	10-126		30.0	30	
N-nitroso-di-n-propylamine	0.603	0.0856	"	0.855	ND	70.5	10-125		26.6	30	
N-Nitrosodiphenylamine	0.557	0.0856	"	0.855	ND	65.1	10-177		31.2	30	Non-dir.
Pentachlorophenol	0.484	0.0856	"	0.855	ND	56.6	10-153		26.4	30	
Phenanthrene	0.586	0.0856	"	0.855	ND	68.6	10-148		30.2	30	Non-dir.
Phenol	0.693	0.0856	"	0.855	ND	81.0	10-126		25.7	30	
Pyrene	0.642	0.0856	"	0.855	ND	75.0	10-165		28.6	30	
Pyridine	0.553	0.343	"	0.855	ND	64.6	10-83		35.1	30	Non-dir.
<i>Surrogate: SURR: 2-Fluorophenol</i>	1.39		"	1.71		81.3	20-108				
<i>Surrogate: SURR: Phenol-d6</i>	1.38		"	1.71		80.8	23-114				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	0.635		"	0.855		74.2	22-108				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	0.573		"	0.855		67.0	21-113				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	1.21		"	1.71		70.9	19-110				
<i>Surrogate: SURR: Terphenyl-d14</i>	0.631		"	0.855		73.8	24-116				





PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Blank (BL30041-BLK1)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
Perfluorobutanesulfonic acid (PFBS)	ND	0.174	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.197	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.197	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.180	"								
Perfluorooctanoic acid (PFOA)	ND	0.197	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.183	"								
Perfluorononanoic acid (PFNA)	ND	0.197	"								
Perfluorodecanoic acid (PFDA)	ND	0.197	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.197	"								
Perfluorododecanoic acid (PFDoA)	ND	0.197	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.197	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.197	"								
N-MeFOSAA	ND	0.197	"								
N-EtFOSAA	ND	0.197	"								
Perfluoropentanoic acid (PFPeA)	ND	0.394	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.197	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.197	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.190	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.748	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.756	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.787	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	0.350	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.394	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.394	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.394	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.185	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.738	"								
HFPO-DA (Gen-X)	ND	0.787	"								
11CL-PF3OUdS	ND	0.744	"								
9CL-PF3ONS	ND	0.736	"								
ADONA	ND	0.744	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.191	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.189	"								
3-Perfluoropropyl propanoic acid (FPPrPA)	ND	0.984	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.92	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.92	"								
N-MeFOSE	ND	1.97	"								
N-MeFOSA	ND	0.197	"								
N-EtFOSE	ND	1.97	"								
N-EtFOSA	ND	0.197	"								
<i>Surrogate: M3PFBS</i>	1.49		"	1.91		78.0		25-150			
<i>Surrogate: M5PFHxA</i>	2.25		"	2.05		110		25-150			
<i>Surrogate: M4PFHpA</i>	2.72		"	2.05		133		25-150			
<i>Surrogate: M3PFHxS</i>	2.50		"	1.94		129		25-150			
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	2.15		"	2.05		105		25-150			
<i>Surrogate: M6PFDA</i>	1.03		"	1.02		101		25-150			
<i>Surrogate: M7PFUDA</i>	0.913		"	1.02		89.2		25-150			



PFAS Target compounds by LC/MS-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
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Batch BL30041 - EPA 1633 Prep

Blank (BL30041-BLK1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.879		ug/kg wet	1.02		85.9	25-150				
Surrogate: M2PFTeDA	0.640		"	1.02		62.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.395		"	8.22		4.80	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.41		"	1.96		71.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.828		"	4.10		20.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.38		"	2.05		67.4	10-150				
Surrogate: d3-N-MeFOSAA	1.94		"	4.10		47.2	25-150				
Surrogate: d5-N-EtFOSAA	1.98		"	4.10		48.2	25-150				
Surrogate: M2-6:2 FTS	3.67		"	3.90		94.2	25-200				
Surrogate: M2-8:2 FTS	2.59		"	3.94		65.8	25-200				
Surrogate: M9PFNA	0.999		"	1.02		97.6	25-150				
Surrogate: M2-4:2 FTS	3.74		"	3.85		97.1	25-150				
Surrogate: d-N-MeFOSA	0.935		"	2.05		45.6	25-150				
Surrogate: d-N-EtFOSA	1.04		"	2.05		50.9	25-150				
Surrogate: M3HFPO-DA	10.1		"	8.22		123	25-150				
Surrogate: d9-N-EtFOSE	5.61		"	20.5		27.4	25-150				
Surrogate: d7-N-MeFOSE	8.68		"	20.5		42.3	25-150				

LCS (BL30041-BS1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	3.61	0.176	ug/kg wet	3.52		102	50-150				
Perfluorohexanoic acid (PFHxA)	3.43	0.199	"	3.98		86.4	50-150				
Perfluoroheptanoic acid (PFHpA)	3.38	0.199	"	3.98		85.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.60	0.182	"	3.64		99.0	50-150				
Perfluorooctanoic acid (PFOA)	3.57	0.199	"	3.98		89.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.79	0.185	"	3.70		103	50-150				
Perfluorononanoic acid (PFNA)	3.81	0.199	"	3.98		95.9	50-150				
Perfluorodecanoic acid (PFDA)	3.36	0.199	"	3.98		84.6	50-150				
Perfluoroundecanoic acid (PFUnA)	4.39	0.199	"	3.98		110	50-150				
Perfluorododecanoic acid (PFDoA)	3.76	0.199	"	3.98		94.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.44	0.199	"	3.98		112	50-150				
Perfluorotetradecanoic acid (PFTA)	4.30	0.199	"	3.98		108	50-150				
N-MeFOSAA	4.32	0.199	"	3.98		109	50-150				
N-EtFOSAA	4.14	0.199	"	3.98		104	50-150				
Perfluoropentanoic acid (PFPeA)	7.47	0.398	"	7.95		93.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.43	0.199	"	3.98		111	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.69	0.199	"	3.80		123	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.18	0.192	"	3.84		83.0	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.6	0.755	"	15.1		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.1	0.763	"	15.3		105	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.1	0.795	"	15.9		82.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.82	0.354	"	7.08		82.3	50-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	5.07	0.398	"	7.95		63.7	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.30	0.398	"	7.95		28.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	11.1	0.398	"	7.95		140	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.76	0.187	"	3.74		101	50-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>LCS (BL30041-BS1)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	13.7	0.746	ug/kg wet	14.9		91.9	50-150				
HFPO-DA (Gen-X)	6.36	0.795	"	7.95		80.0	50-150				
11CL-PF3OUdS	4.43	0.751	"	7.51		59.0	50-150				
9CL-PF3ONS	5.97	0.744	"	7.44		80.3	50-150				
ADONA	7.71	0.751	"	7.51		103	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.47	0.193	"	3.86		64.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.87	0.191	"	3.82		101	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	12.4	0.994	"	15.9		78.3	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	87.7	4.97	"	79.5		110	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	70.5	4.97	"	79.5		88.6	50-150				
N-MeFOSE	29.4	1.99	"	39.8		73.9	50-150				
N-MeFOSA	3.10	0.199	"	3.98		77.9	50-150				
N-EtFOSE	33.5	1.99	"	39.8		84.3	50-150				
N-EtFOSA	3.66	0.199	"	3.98		92.1	50-150				
Surrogate: M3PFBS	1.48		"	1.93		76.9	25-150				
Surrogate: M5PFHxA	2.24		"	2.07		108	25-150				
Surrogate: M4PFHpA	2.75		"	2.07		133	25-150				
Surrogate: M3PFHxS	2.50		"	1.96		127	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.29		"	2.07		111	25-150				
Surrogate: M6PFDA	1.01		"	1.03		98.1	25-150				
Surrogate: M7PFUdA	0.874		"	1.03		84.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.792		"	1.03		76.6	25-150				
Surrogate: M2PFTeDA	0.648		"	1.03		62.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.373		"	8.30		4.50	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.52		"	1.98		76.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.834		"	4.14		20.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.31		"	2.07		63.1	10-150				
Surrogate: d3-N-MeFOSAA	1.94		"	4.14		46.9	25-150				
Surrogate: d5-N-EtFOSAA	1.98		"	4.14		47.8	25-150				
Surrogate: M2-6:2 FTS	4.06		"	3.94		103	25-200				
Surrogate: M2-8:2 FTS	2.95		"	3.98		74.2	25-200				
Surrogate: M9PFNA	1.00		"	1.03		97.2	25-150				
Surrogate: M2-4:2 FTS	3.80		"	3.89		97.7	25-150				
Surrogate: d-N-MeFOSA	0.992		"	2.07		47.9	25-150				
Surrogate: d-N-EtFOSA	1.00		"	2.07		48.5	25-150				
Surrogate: M3HFPO-DA	9.56		"	8.30		115	25-150				
Surrogate: d9-N-EtFOSE	6.86		"	20.7		33.1	25-150				
Surrogate: d7-N-MeFOSE	9.03		"	20.7		43.6	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
<b>Batch BL30041 - EPA 1633 Prep</b>										
<b>LCS (BL30041-BS2)</b>										
Prepared: 12/01/2023 Analyzed: 12/03/2023										
Perfluorobutanesulfonic acid (PFBS)	0.907	0.175	ug/kg wet	0.698	130	50-150				
Perfluorohexanoic acid (PFHxA)	0.810	0.197	"	0.789	103	50-150				
Perfluoroheptanoic acid (PFHpA)	0.826	0.197	"	0.789	105	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.892	0.180	"	0.722	124	50-150				
Perfluorooctanoic acid (PFOA)	0.932	0.197	"	0.789	118	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.895	0.183	"	0.734	122	50-150				
Perfluorononanoic acid (PFNA)	0.867	0.197	"	0.789	110	50-150				
Perfluorodecanoic acid (PFDA)	0.806	0.197	"	0.789	102	50-150				
Perfluoroundecanoic acid (PFUnA)	0.965	0.197	"	0.789	122	50-150				
Perfluorododecanoic acid (PFDoA)	0.909	0.197	"	0.789	115	50-150				
Perfluorotridecanoic acid (PFTriDA)	0.967	0.197	"	0.789	123	50-150				
Perfluorotetradecanoic acid (PFTA)	0.826	0.197	"	0.789	105	50-150				
N-MeFOSAA	1.01	0.197	"	0.789	128	50-150				
N-EtFOSAA	0.897	0.197	"	0.789	114	50-150				
Perfluoropentanoic acid (PFPeA)	1.71	0.394	"	1.58	109	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	1.03	0.197	"	0.789	130	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	1.10	0.197	"	0.753	146	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.686	0.190	"	0.761	90.1	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.55	0.750	"	3.00	119	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.24	0.757	"	3.03	140	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.89	0.789	"	3.16	91.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.37	0.351	"	1.40	97.3	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.861	0.394	"	1.58	54.6	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.590	0.394	"	1.58	37.4	50-150				Low Bias
Perfluoro-5-oxahexanoic acid (PFMBA)	2.47	0.394	"	1.58	156	50-150				High Bias
Perfluoro-1-pentanesulfonate (PFPeS)	0.888	0.185	"	0.742	120	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	3.28	0.740	"	2.96	111	50-150				
HFPO-DA (Gen-X)	1.46	0.789	"	1.58	92.8	50-150				
11CL-PF3OUdS	1.35	0.746	"	1.49	90.3	50-150				
9CL-PF3ONS	1.78	0.738	"	1.48	120	50-150				
ADONA	2.30	0.746	"	1.49	154	50-150				High Bias
Perfluorododecanesulfonic acid (PFDoS)	0.630	0.191	"	0.765	82.4	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.845	0.189	"	0.757	112	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.986	"	3.16		50-150				Low Bias
3-Perfluoropentyl propanoic acid (FPePA)	24.6	4.93	"	15.8	156	50-150				High Bias
3-Perfluoroheptyl propanoic acid (FHpPA)	19.6	4.93	"	15.8	124	50-150				
N-MeFOSE	7.25	1.97	"	7.89	91.9	50-150				
N-MeFOSA	0.807	0.197	"	0.789	102	50-150				
N-EtFOSE	7.57	1.97	"	7.89	96.0	50-150				
N-EtFOSA	0.901	0.197	"	0.789	114	50-150				
Surrogate: M3PFBS	1.00		"	1.91	52.4	25-150				
Surrogate: M5PFHxA	1.67		"	2.06	81.4	25-150				
Surrogate: M4PFHpA	2.49		"	2.06	121	25-150				
Surrogate: M3PFHxS	2.37		"	1.95	122	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.04		"	2.06	99.1	25-150				
Surrogate: M6PFDA	0.911		"	1.03	88.8	25-150				
Surrogate: M7PFUDA	0.829		"	1.03	80.8	25-150				



**PFAS Target compounds by LC/MS-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
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**Batch BL30041 - EPA 1633 Prep**

**LCS (BL30041-BS2)**

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.768		ug/kg wet	1.03		74.9	25-150				
Surrogate: M2PFTeDA	0.664		"	1.03		64.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.281		"	8.23		3.41	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.45		"	1.97		73.7	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.523		"	4.11		12.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	1.26		"	2.06		61.2	10-150				
Surrogate: d3-N-MeFOSAA	2.08		"	4.11		50.5	25-150				
Surrogate: d5-N-EtFOSAA	2.01		"	4.11		49.0	25-150				
Surrogate: M2-6:2 FTS	3.67		"	3.91		93.9	25-200				
Surrogate: M2-8:2 FTS	2.70		"	3.94		68.5	25-200				
Surrogate: M9PFNA	0.974		"	1.03		94.9	25-150				
Surrogate: M2-4:2 FTS	3.22		"	3.86		83.4	25-150				
Surrogate: d-N-MeFOSA	0.994		"	2.06		48.3	25-150				
Surrogate: d-N-EtFOSA	0.896		"	2.06		43.6	25-150				
Surrogate: M3HFPO-DA	7.20		"	8.23		87.5	25-150				
Surrogate: d9-N-EtFOSE	8.22		"	20.6		40.0	25-150				
Surrogate: d7-N-MeFOSE	9.72		"	20.6		47.2	25-150				

**Matrix Spike (BL30041-MS1)**

\*Source sample: 23K1814-01 (Matrix Spike)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	4.49	0.193	ug/kg dry	3.87	ND	116	25-150				
Perfluorohexanoic acid (PFHxA)	4.37	0.219	"	4.37	ND	100	25-150				
Perfluoroheptanoic acid (PFHpA)	4.06	0.219	"	4.37	ND	92.8	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.17	0.200	"	4.00	ND	104	25-150				
Perfluorooctanoic acid (PFOA)	5.01	0.219	"	4.37	ND	115	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.60	0.203	"	4.07	ND	113	25-150				
Perfluorononanoic acid (PFNA)	4.47	0.219	"	4.37	ND	102	25-150				
Perfluorodecanoic acid (PFDA)	4.75	0.219	"	4.37	ND	109	25-150				
Perfluoroundecanoic acid (PFUnA)	5.22	0.219	"	4.37	ND	119	25-150				
Perfluorododecanoic acid (PFDoA)	4.83	0.219	"	4.37	ND	110	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.47	0.219	"	4.37	ND	125	25-150				
Perfluorotetradecanoic acid (PFTA)	4.86	0.219	"	4.37	ND	111	25-150				
N-MeFOSAA	5.32	0.219	"	4.37	ND	122	25-150				
N-EtFOSAA	5.13	0.219	"	4.37	ND	117	25-150				
Perfluoropentanoic acid (PFPeA)	9.20	0.437	"	8.74	ND	105	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.70	0.219	"	4.37	ND	130	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.86	0.219	"	4.17	ND	116	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.54	0.211	"	4.22	ND	108	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	18.9	0.831	"	16.6	ND	114	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	21.3	0.839	"	16.8	ND	127	25-150				
Perfluoro-n-butanoic acid (PFBA)	14.7	0.874	"	17.5	ND	84.2	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.88	0.389	"	7.78	ND	88.4	25-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	4.44	0.437	"	8.74	ND	50.8	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	3.14	0.437	"	8.74	ND	35.9	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	13.4	0.437	"	8.74	ND	153	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.06	0.205	"	4.11	ND	98.7	25-150				



**PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Matrix Spike (BL30041-MS1)</b>	*Source sample: 23K1814-01 (Matrix Spike)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.5	0.820	ug/kg dry	16.4	ND	107	25-150				
HFPO-DA (Gen-X)	6.36	0.874	"	8.74	ND	72.7	25-150				
11CL-PF3OUdS	13.5	0.826	"	8.26	ND	163	25-150	High Bias			
9CL-PF3ONS	16.7	0.817	"	8.17	ND	204	25-150	High Bias			
ADONA	14.3	0.826	"	8.26	ND	173	25-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	3.90	0.212	"	4.24	ND	92.0	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	5.40	0.210	"	4.20	ND	129	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	1.09	"	17.5	ND	90.4	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	142	5.46	"	87.4	ND	162	25-150	High Bias			
3-Perfluoroheptyl propanoic acid (FHpPA)	146	5.46	"	87.4	ND	167	25-150	High Bias			
N-MeFOSE	37.5	2.19	"	43.7	ND	85.8	25-150				
N-MeFOSA	3.99	0.219	"	4.37	ND	91.3	25-150				
N-EtFOSE	39.9	2.19	"	43.7	ND	91.4	25-150				
N-EtFOSA	4.00	0.219	"	4.37	ND	91.6	25-150				
<i>Surrogate: M3PFBS</i>	0.965		"	2.12		45.5	25-150				
<i>Surrogate: M5PFHxA</i>	1.75		"	2.28		76.9	25-150				
<i>Surrogate: M4PFHpA</i>	2.98		"	2.28		131	25-150				
<i>Surrogate: M3PFHxS</i>	3.12		"	2.16		144	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	2.43		"	2.28		107	25-150				
<i>Surrogate: M6PFDA</i>	1.36		"	1.14		120	25-150				
<i>Surrogate: M7PFUdA</i>	1.44		"	1.14		126	25-150				
<i>Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)</i>	1.35		"	1.14		119	25-150				
<i>Surrogate: M2PFTeDA</i>	1.02		"	1.14		90.0	10-150				
<i>Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)</i>	0.290		"	9.13		3.18	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	2.28		"	2.18		105	25-150				
<i>Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)</i>	0.486		"	4.55		10.7	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)</i>	1.86		"	2.28		81.8	10-150				
<i>Surrogate: d3-N-MeFOSAA</i>	3.18		"	4.55		69.8	25-150				
<i>Surrogate: d5-N-EtFOSAA</i>	3.29		"	4.55		72.4	25-150				
<i>Surrogate: M2-6:2 FTS</i>	5.17		"	4.33		119	25-200				
<i>Surrogate: M2-8:2 FTS</i>	5.01		"	4.37		115	25-200				
<i>Surrogate: M9PFNA</i>	1.42		"	1.14		125	25-150				
<i>Surrogate: M2-4:2 FTS</i>	3.26		"	4.27		76.4	25-150				
<i>Surrogate: d-N-MeFOSA</i>	1.71		"	2.28		74.9	25-150				
<i>Surrogate: d-N-EtFOSA</i>	1.90		"	2.28		83.3	25-150				
<i>Surrogate: M3HFPO-DA</i>	7.22		"	9.13		79.1	25-150				
<i>Surrogate: d9-N-EtFOSE</i>	11.2		"	22.8		49.1	25-150				
<i>Surrogate: d7-N-MeFOSE</i>	13.8		"	22.8		60.5	25-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30041 - EPA 1633 Prep</b>											
<b>Matrix Spike Dup (BL30041-MSD1)</b>	<b>*Source sample: 23K1814-01 (Matrix Spike Dup)</b>						<b>Prepared: 12/01/2023 Analyzed: 12/03/2023</b>				
Perfluorobutanesulfonic acid (PFBS)	3.99	0.193	ug/kg dry	3.86	ND	103	25-150		11.8	35	
Perfluorohexanoic acid (PFHxA)	3.97	0.218	"	4.36	ND	90.9	25-150		9.68	35	
Perfluoroheptanoic acid (PFHpA)	3.73	0.218	"	4.36	ND	85.5	25-150		8.34	35	
Perfluorohexanesulfonic acid (PFHxS)	4.06	0.200	"	3.99	ND	102	25-150		2.61	35	
Perfluorooctanoic acid (PFOA)	4.44	0.218	"	4.36	ND	102	25-150		12.1	35	
Perfluorooctanesulfonic acid (PFOS)	4.42	0.203	"	4.06	ND	109	25-150		4.00	35	
Perfluorononanoic acid (PFNA)	4.41	0.218	"	4.36	ND	101	25-150		1.36	35	
Perfluorodecanoic acid (PFDA)	4.11	0.218	"	4.36	ND	94.2	25-150		14.4	35	
Perfluoroundecanoic acid (PFUnA)	5.22	0.218	"	4.36	ND	120	25-150		0.0203	35	
Perfluorododecanoic acid (PFDoA)	4.44	0.218	"	4.36	ND	102	25-150		8.49	35	
Perfluorotridecanoic acid (PFTriDA)	4.88	0.218	"	4.36	ND	112	25-150		11.6	35	
Perfluorotetradecanoic acid (PFTA)	4.73	0.218	"	4.36	ND	108	25-150		2.65	35	
N-MeFOSAA	4.80	0.218	"	4.36	ND	110	25-150		10.3	35	
N-EtFOSAA	4.57	0.218	"	4.36	ND	105	25-150		11.7	35	
Perfluoropentanoic acid (PFPeA)	8.44	0.436	"	8.73	ND	96.7	25-150		8.63	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.83	0.218	"	4.36	ND	111	25-150		16.6	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.85	0.218	"	4.17	ND	116	25-150		0.155	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.49	0.211	"	4.21	ND	107	25-150		1.22	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	17.9	0.829	"	16.6	ND	108	25-150		5.11	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	18.6	0.838	"	16.8	ND	111	25-150		13.8	35	
Perfluoro-n-butanoic acid (PFBA)	14.9	0.873	"	17.5	ND	85.4	25-150		1.22	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.74	0.388	"	7.77	ND	86.8	25-150		1.97	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.93	0.436	"	8.73	ND	67.9	25-150		28.7	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.88	0.436	"	8.73	ND	32.9	25-150		8.70	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	12.8	0.436	"	8.73	ND	147	25-150		4.56	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.06	0.205	"	4.10	ND	99.0	25-150		0.0774	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	15.5	0.818	"	16.4	ND	94.9	25-150		12.1	30	
HFPO-DA (Gen-X)	7.36	0.873	"	8.73	ND	84.3	25-150		14.6	30	
11CL-PF3OUdS	8.15	0.825	"	8.25	ND	98.9	25-150		49.2	30	Non-dir.
9CL-PF3ONS	10.2	0.816	"	8.16	ND	125	25-150		48.4	30	Non-dir.
ADONA	8.75	0.825	"	8.25	ND	106	25-150		47.9	30	Non-dir.
Perfluorododecanesulfonic acid (PFDoS)	3.31	0.212	"	4.23	ND	78.2	25-150		16.4	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	5.19	0.209	"	4.19	ND	124	25-150		4.01	30	
3-Perfluoropropyl propanoic acid (FPrPA)	12.3	1.09	"	17.5	ND	70.8	25-150		24.5	30	
3-Perfluoropentyl propanoic acid (FPePA)	96.2	5.45	"	87.3	ND	110	25-150		38.4	30	Non-dir.
3-Perfluoroheptyl propanoic acid (FHpPA)	94.9	5.45	"	87.3	ND	109	25-150		42.7	30	Non-dir.
N-MeFOSE	31.1	2.18	"	43.6	ND	71.3	25-150		18.6	30	
N-MeFOSA	3.51	0.218	"	4.36	ND	80.4	25-150		12.8	30	
N-EtFOSE	36.8	2.18	"	43.6	ND	84.2	25-150		8.32	30	
N-EtFOSA	3.90	0.218	"	4.36	ND	89.4	25-150		2.64	30	
Surrogate: M3PFBS	1.62		"	2.12		76.5	25-150				
Surrogate: M5PFHxA	2.39		"	2.27		105	25-150				
Surrogate: M4PFHpA	2.91		"	2.27		128	25-150				
Surrogate: M3PFHxS	2.84		"	2.15		132	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.48		"	2.27		109	25-150				
Surrogate: M6PFDA	1.51		"	1.13		133	25-150				
Surrogate: M7PFUdA	1.50		"	1.13		132	25-150				





PFAS Target compounds by LC/MS-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
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Batch BL30041 - EPA 1633 Prep

Matrix Spike Dup (BL30041-MSD1) \*Source sample: 23K1814-01 (Matrix Spike Dup) Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.40		ug/kg dry	1.13		124	25-150				
Surrogate: M2PFTeDA	1.12		"	1.13		98.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.498		"	9.11		5.47	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.34		"	2.18		108	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	0.896		"	4.54		19.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.16		"	2.27		95.2	10-150				
Surrogate: d3-N-MeFOSAA	3.72		"	4.54		82.0	25-150				
Surrogate: d5-N-EtFOSAA	3.90		"	4.54		85.8	25-150				
Surrogate: M2-6:2 FTS	4.68		"	4.32		108	25-200				
Surrogate: M2-8:2 FTS	4.87		"	4.36		112	25-200				
Surrogate: M9PFNA	1.37		"	1.13		121	25-150				
Surrogate: M2-4:2 FTS	4.02		"	4.26		94.4	25-150				
Surrogate: d-N-MeFOSA	1.89		"	2.27		83.0	25-150				
Surrogate: d-N-EtFOSA	1.81		"	2.27		79.8	25-150				
Surrogate: M3HFPO-DA	10.6		"	9.11		116	25-150				
Surrogate: d9-N-EtFOSE	11.1		"	22.7		48.6	25-150				
Surrogate: d7-N-MeFOSE	13.4		"	22.7		59.1	25-150				

Batch BL30044 - EPA 1633 Prep

Blank (BL30044-BLK1) Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L
Perfluorohexanoic acid (PFHxA)	ND	4.00	"
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"
Perfluorooctanoic acid (PFOA)	ND	4.00	"
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"
Perfluorononanoic acid (PFNA)	ND	4.00	"
Perfluorodecanoic acid (PFDA)	ND	4.00	"
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"
Perfluorododecanoic acid (PFDoA)	ND	4.00	"
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"
N-MeFOSAA	ND	4.00	"
N-EtFOSAA	ND	4.00	"
Perfluoropentanoic acid (PFPeA)	ND	8.00	"
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	7.12	"
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	8.00	"
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"



**PFAS Target compounds by LC/MS-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
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**Batch BL30044 - EPA 1633 Prep**

**Blank (BL30044-BLK1)**

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	ng/L								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
<i>Surrogate: M3PFBS</i>	50.9		"	38.8		131	25-150				
<i>Surrogate: M5PFHxA</i>	57.3		"	41.7		138	25-150				
<i>Surrogate: M4PFHpA</i>	66.0		"	41.7		158	25-150				
<i>Surrogate: M3PFHxS</i>	60.9		"	39.5		154	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	47.2		"	41.7		113	25-150				
<i>Surrogate: M6PFDA</i>	30.5		"	20.8		147	25-150				
<i>Surrogate: M7PFUdA</i>	27.1		"	20.8		130	25-150				
<i>Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)</i>	23.2		"	20.8		111	25-150				
<i>Surrogate: M2PFTeDA</i>	16.4		"	20.8		79.1	10-150				
<i>Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)</i>	83.3		"	167		49.9	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	49.3		"	39.9		124	25-150				
<i>Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)</i>	121		"	83.3		146	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)</i>	42.8		"	41.7		103	10-150				
<i>Surrogate: d3-N-MeFOSAA</i>	72.1		"	83.3		86.6	25-150				
<i>Surrogate: d5-N-EtFOSAA</i>	122		"	83.3		146	25-150				
<i>Surrogate: M2-6:2 FTS</i>	102		"	79.2		129	25-200				
<i>Surrogate: M2-8:2 FTS</i>	105		"	80.0		131	25-200				
<i>Surrogate: M9PFNA</i>	24.9		"	20.8		120	25-150				
<i>Surrogate: M2-4:2 FTS</i>	106		"	78.2		135	25-150				
<i>Surrogate: d-N-MeFOSA</i>	13.0		"	41.7		31.3	25-150				
<i>Surrogate: d-N-EtFOSA</i>	8.86		"	41.7		21.3	25-150				
<i>Surrogate: M3HFPO-DA</i>	274		"	167		164	25-150				
<i>Surrogate: d9-N-EtFOSE</i>	187		"	417		44.8	25-150				
<i>Surrogate: d7-N-MeFOSE</i>	213		"	417		51.0	25-150				



PFAS Target compounds by LC/MS-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
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>LCS (BL30044-BS1)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
Perfluorobutanesulfonic acid (PFBS)	87.3	3.54	ng/L	70.8		123	50-150				
Perfluorohexanoic acid (PFHxA)	81.9	4.00	"	80.0		102	50-150				
Perfluoroheptanoic acid (PFHpA)	69.7	4.00	"	80.0		87.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	76.0	3.66	"	73.2		104	50-150				
Perfluorooctanoic acid (PFOA)	89.8	4.00	"	80.0		112	50-150				
Perfluorooctanesulfonic acid (PFOS)	86.4	3.72	"	74.4		116	50-150				
Perfluorononanoic acid (PFNA)	78.5	4.00	"	80.0		98.2	50-150				
Perfluorodecanoic acid (PFDA)	86.4	4.00	"	80.0		108	50-150				
Perfluoroundecanoic acid (PFUnA)	101	4.00	"	80.0		127	50-150				
Perfluorododecanoic acid (PFDoA)	101	4.00	"	80.0		127	50-150				
Perfluorotridecanoic acid (PFTrDA)	93.5	4.00	"	80.0		117	50-150				
Perfluorotetradecanoic acid (PFTA)	90.7	4.00	"	80.0		113	50-150				
N-MeFOSAA	104	4.00	"	80.0		130	50-150				
N-EtFOSAA	97.3	4.00	"	80.0		122	50-150				
Perfluoropentanoic acid (PFPeA)	173	8.00	"	160		108	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	92.7	4.00	"	80.0		116	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	89.1	3.82	"	76.4		117	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	87.8	3.86	"	77.2		114	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	362	15.2	"	304		119	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	391	15.4	"	307		127	50-150				
Perfluoro-n-butanoic acid (PFBA)	349	16.0	"	320		109	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	139	7.12	"	142		97.4	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	153	8.00	"	160		95.6	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	113	8.00	"	160		70.6	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	156	8.00	"	160		97.4	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	76.5	3.76	"	75.2		102	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	310	15.0	"	300		103	50-150				
HFPO-DA (Gen-X)	147	16.0	"	160		92.0	50-150				
11CL-PF3OUdS	124	15.1	"	151		82.1	50-150				
9CL-PF3ONS	162	15.0	"	150		108	50-150				
ADONA	140	15.1	"	151		92.7	50-150				
Perfluorododecanesulfonic acid (PFDoS)	60.5	3.88	"	77.6		77.9	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	100	3.84	"	76.8		130	50-150				
3-Perfluoropropyl propanoic acid (FPPrPA)	348	10.0	"	320		109	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1720	50.0	"	1600		108	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1900	50.0	"	1600		119	50-150				
N-MeFOSE	670	40.0	"	800		83.8	50-150				
N-MeFOSA	76.9	4.00	"	80.0		96.1	50-150				
N-EtFOSE	851	40.0	"	800		106	50-150				
N-EtFOSA	78.5	4.00	"	80.0		98.2	50-150				
Surrogate: M3PFBS	45.2		"	38.8		116	25-150				
Surrogate: M5PFHxA	58.9		"	41.7		141	25-150				
Surrogate: M4PFHpA	64.1		"	41.7		154	25-150				
Surrogate: M3PFHxS	58.9		"	39.5		149	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	50.5		"	41.7		121	25-150				
Surrogate: M6PFDA	30.0		"	20.8		144	25-150				
Surrogate: M7PFUdA	27.2		"	20.8		131	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL30044 - EPA 1633 Prep

LCS (BL30044-BS1)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	23.7		ng/L	20.8		114	25-150				
Surrogate: M2PFTeDA	18.7		"	20.8		89.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	66.5		"	167		39.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.3		"	39.9		124	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	122		"	83.3		147	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	40.0		"	41.7		96.0	10-150				
Surrogate: d3-N-MeFOSAA	71.4		"	83.3		85.7	25-150				
Surrogate: d5-N-EtFOSAA	74.0		"	83.3		88.9	25-150				
Surrogate: M2-6:2 FTS	99.3		"	79.2		125	25-200				
Surrogate: M2-8:2 FTS	92.9		"	80.0		116	25-200				
Surrogate: M9PFNA	28.4		"	20.8		137	25-150				
Surrogate: M2-4:2 FTS	93.5		"	78.2		120	25-150				
Surrogate: d-N-MeFOSA	12.6		"	41.7		30.3	25-150				
Surrogate: d-N-EtFOSA	7.81		"	41.7		18.7	25-150				
Surrogate: M3HFPO-DA	277		"	167		166	25-150				
Surrogate: d9-N-EtFOSE	44.5		"	417		10.7	25-150				
Surrogate: d7-N-MeFOSE	203		"	417		48.8	25-150				

LCS (BL30044-BS2)

Prepared: 12/01/2023 Analyzed: 12/03/2023

Perfluorobutanesulfonic acid (PFBS)	16.2	3.54	ng/L	14.2		114	50-150				
Perfluorohexanoic acid (PFHxA)	16.2	4.00	"	16.0		101	50-150				
Perfluoroheptanoic acid (PFHpA)	11.6	4.00	"	16.0		72.5	50-150				
Perfluorohexanesulfonic acid (PFHxS)	16.3	3.66	"	14.6		111	50-150				
Perfluorooctanoic acid (PFOA)	18.2	4.00	"	16.0		114	50-150				
Perfluorooctanesulfonic acid (PFOS)	19.9	3.72	"	14.9		134	50-150				
Perfluorononanoic acid (PFNA)	15.9	4.00	"	16.0		99.6	50-150				
Perfluorodecanoic acid (PFDA)	14.6	4.00	"	16.0		91.3	50-150				
Perfluoroundecanoic acid (PFUnA)	18.4	4.00	"	16.0		115	50-150				
Perfluorododecanoic acid (PFDoA)	17.0	4.00	"	16.0		106	50-150				
Perfluorotridecanoic acid (PFTrDA)	21.5	4.00	"	16.0		134	50-150				
Perfluorotetradecanoic acid (PFTA)	16.9	4.00	"	16.0		106	50-150				
N-MeFOSAA	19.7	4.00	"	16.0		123	50-150				
N-EtFOSAA	17.8	4.00	"	16.0		111	50-150				
Perfluoropentanoic acid (PFPeA)	32.9	8.00	"	32.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	19.6	4.00	"	16.0		123	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	18.6	3.82	"	15.3		122	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	17.8	3.86	"	15.4		115	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	76.3	15.2	"	60.8		125	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	75.8	15.4	"	61.4		123	50-150				
Perfluoro-n-butanoic acid (PFBA)	67.0	16.0	"	64.0		105	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	27.4	7.12	"	28.5		96.0	50-150				
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	28.4	8.00	"	32.0		88.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	25.5	8.00	"	32.0		79.8	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	29.4	8.00	"	32.0		92.0	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	14.8	3.76	"	15.0		98.7	50-150				



**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>LCS (BL30044-BS2)</b>											
Prepared: 12/01/2023 Analyzed: 12/03/2023											
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	64.5	15.0	ng/L	60.0		107		50-150			
HFPO-DA (Gen-X)	29.9	16.0	"	32.0		93.4		50-150			
11CL-PF3OUdS	23.2	15.1	"	30.2		76.7		50-150			
9CL-PF3ONS	34.1	15.0	"	29.9		114		50-150			
ADONA	27.9	15.1	"	30.2		92.3		50-150			
Perfluorododecanesulfonic acid (PFDoS)	10.2	3.88	"	15.5		65.5		50-150			
Perfluoro-1-nonanesulfonic acid (PFNS)	20.1	3.84	"	15.4		131		50-150			
3-Perfluoropropyl propanoic acid (FPrPA)	71.4	10.0	"	64.0		111		50-150			
3-Perfluoropentyl propanoic acid (FPePA)	330	50.0	"	320		103		50-150			
3-Perfluoroheptyl propanoic acid (FHpPA)	374	50.0	"	320		117		50-150			
N-MeFOSE	120	40.0	"	160		75.1		50-150			
N-MeFOSA	11.5	4.00	"	16.0		71.9		50-150			
N-EtFOSE	174	40.0	"	160		109		50-150			
N-EtFOSA	15.3	4.00	"	16.0		95.6		50-150			
Surrogate: M3PFBS	51.4		"	38.8		132		25-150			
Surrogate: M5PFHxA	58.2		"	41.7		140		25-150			
Surrogate: M4PFHpA	69.7		"	41.7		167		25-150			
Surrogate: M3PFHxS	64.1		"	39.5		162		25-150			
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	48.5		"	41.7		116		25-150			
Surrogate: M6PFDA	32.2		"	20.8		155		25-150			
Surrogate: M7PFUdA	30.7		"	20.8		148		25-150			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	26.2		"	20.8		126		25-150			
Surrogate: M2PFTeDA	15.0		"	20.8		72.1		10-150			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	88.4		"	167		52.9		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.8		"	39.9		112		25-150			
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	123		"	83.3		148		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	37.5		"	41.7		90.0		10-150			
Surrogate: d3-N-MeFOSAA	71.5		"	83.3		85.8		25-150			
Surrogate: d5-N-EtFOSAA	69.5		"	83.3		83.5		25-150			
Surrogate: M2-6:2 FTS	103		"	79.2		130		25-200			
Surrogate: M2-8:2 FTS	100		"	80.0		126		25-200			
Surrogate: M9PFNA	28.9		"	20.8		139		25-150			
Surrogate: M2-4:2 FTS	104		"	78.2		133		25-150			
Surrogate: d-N-MeFOSA	15.0		"	41.7		35.9		25-150			
Surrogate: d-N-EtFOSA	7.82		"	41.7		18.7		25-150			
Surrogate: M3HFPO-DA	270		"	167		162		25-150			
Surrogate: d9-N-EtFOSE	133		"	417		31.8		25-150			
Surrogate: d7-N-MeFOSE	166		"	417		39.8		25-150			



PFAS Target compounds by LC/MS-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
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>Duplicate (BL30044-DUP1)</b>	*Source sample: 23K1796-03 (Duplicate)						Prepared: 12/01/2023 Analyzed: 12/03/2023				
Perfluorobutanesulfonic acid (PFBS)	0.622	1.60	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	1.81	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	1.81	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.65	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	1.81	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.68	"		ND					30	
Perfluorononanoic acid (PFNA)	14.0	1.81	"		11.4				20.8	30	
Perfluorodecanoic acid (PFDA)	ND	1.81	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.81	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.81	"		ND					30	
Perfluorotridecanoic acid (PFTriDA)	ND	1.81	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.81	"		ND					30	
N-MeFOSAA	ND	1.81	"		ND					30	
N-EtFOSAA	ND	1.81	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	3.62	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.81	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.73	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.75	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	6.87	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	6.95	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	7.23	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.22	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.62	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.62	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	0.366	3.62	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.70	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	6.78	"		ND					30	
HFPO-DA (Gen-X)	ND	7.23	"		ND					30	
11CL-PF3OUdS	ND	6.84	"		ND					30	
9CL-PF3ONS	ND	6.76	"		ND					30	
ADONA	ND	6.84	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.75	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.74	"		ND					30	
3-Perfluoropropyl propanoic acid (FPPrPA)	ND	4.52	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	22.6	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	22.6	"		ND					30	
N-MeFOSE	ND	18.1	"		ND					30	
N-MeFOSA	ND	1.81	"		ND					30	
N-EtFOSE	ND	18.1	"		ND					30	
N-EtFOSA	ND	1.81	"		ND					30	
Surrogate: M3PFBS	18.8		"	17.5		107	25-150				
Surrogate: M5PFHxA	27.2		"	18.9		144	25-150				
Surrogate: M4PFHpA	33.7		"	18.9		179	25-150				
Surrogate: M3PFHxS	29.9		"	17.9		167	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	27.2		"	18.9		144	25-150				
Surrogate: M6PFDA	13.5		"	9.41		143	25-150				
Surrogate: M7PFUdA	12.0		"	9.41		127	25-150				



**PFAS Target compounds by LC/MS-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
<b>Batch BL30044 - EPA 1633 Prep</b>											
<b>Duplicate (BL30044-DUP1)</b>	<b>*Source sample: 23K1796-03 (Duplicate)</b>						<b>Prepared: 12/01/2023 Analyzed: 12/03/2023</b>				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	7.98		ng/L	9.41		84.9	25-150				
Surrogate: M2PFTeDA	2.11		"	9.41		22.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	0.638		"	75.5		0.845	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	22.5		"	18.0		125	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	2.42		"	37.7		6.41	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	22.4		"	18.9		119	10-150				
Surrogate: d3-N-MeFOSAA	29.0		"	37.7		77.0	25-150				
Surrogate: d5-N-EtFOSAA	37.7		"	37.7		100	25-150				
Surrogate: M2-6:2 FTS	49.0		"	35.8		137	25-200				
Surrogate: M2-8:2 FTS	45.2		"	36.2		125	25-200				
Surrogate: M9PFNA	0.00		"	9.41			25-150				
Surrogate: M2-4:2 FTS	41.6		"	35.4		118	25-150				
Surrogate: d-N-MeFOSA	13.4		"	18.9		71.3	25-150				
Surrogate: d-N-EtFOSA	12.5		"	18.9		66.3	25-150				
Surrogate: M3HFPO-DA	118		"	75.5		157	25-150				
Surrogate: d9-N-EtFOSE	30.9		"	189		16.4	25-150				
Surrogate: d7-N-MeFOSE	65.2		"	189		34.6	25-150				





**Organochlorine Pesticides by GC/ECD - 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
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**Batch BL30085 - EPA 3510C/1311**

**Blank (BL30085-BLK1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Chlordane, total	ND	0.200	ug/L								
Endrin	ND	0.0400	"								
gamma-BHC (Lindane)	ND	0.0400	"								
Heptachlor	ND	0.0400	"								
Heptachlor epoxide	ND	0.0400	"								
Methoxychlor	ND	0.0400	"								
Toxaphene	ND	1.00	"								
<i>Surrogate: Decachlorobiphenyl</i>	1.13		"	2.00		56.5	30-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	1.25		"	2.00		62.5	30-120				

**LCS (BL30085-BS1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Endrin	0.972	0.0400	ug/L	1.00		97.2	40-120				
gamma-BHC (Lindane)	1.06	0.0400	"	1.00		106	40-120				
Heptachlor	0.815	0.0400	"	1.00		81.5	40-120				
Heptachlor epoxide	0.997	0.0400	"	1.00		99.7	40-120				
Methoxychlor	0.827	0.0400	"	1.00		82.7	40-120				
<i>Surrogate: Decachlorobiphenyl</i>	1.44		"	2.00		72.2	30-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	1.23		"	2.00		61.6	30-120				

**LCS Dup (BL30085-BSD1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Endrin	0.921	0.0400	ug/L	1.00		92.1	40-120		5.38	30	
gamma-BHC (Lindane)	0.976	0.0400	"	1.00		97.6	40-120		8.09	30	
Heptachlor	0.754	0.0400	"	1.00		75.4	40-120		7.69	30	
Heptachlor epoxide	0.927	0.0400	"	1.00		92.7	40-120		7.22	30	
Methoxychlor	0.814	0.0400	"	1.00		81.4	40-120		1.55	30	
<i>Surrogate: Decachlorobiphenyl</i>	1.18		"	2.00		58.9	30-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	1.26		"	2.00		63.2	30-120				



**Organochlorine Pesticides by GC/ECD - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	

**Batch BL30085 - EPA 3510C/1311**

**Leach Fluid Blank (BL30085-LBK1)**

Prepared: 12/03/2023 Analyzed: 12/04/2023

Chlordane, total	ND	0.200	ug/L								
Endrin	ND	0.0400	"								
gamma-BHC (Lindane)	ND	0.0400	"								
Heptachlor	ND	0.0400	"								
Heptachlor epoxide	ND	0.0400	"								
Methoxychlor	ND	0.0400	"								
Toxaphene	ND	1.00	"								
<i>Surrogate: Decachlorobiphenyl</i>	1.37		"	2.00		68.6	30-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	1.11		"	2.00		55.6	30-120				

**Matrix Spike (BL30085-MS1)**

\*Source sample: 23K1898-33 (Matrix Spike)

Prepared: 12/03/2023 Analyzed: 12/04/2023

Endrin	0.830	0.0400	ug/L	1.00	ND	83.0	30-150				
gamma-BHC (Lindane)	0.856	0.0400	"	1.00	ND	85.6	30-150				
Heptachlor	0.694	0.0400	"	1.00	ND	69.4	30-150				
Heptachlor epoxide	0.819	0.0400	"	1.00	ND	81.9	30-150				
Methoxychlor	0.790	0.0400	"	1.00	ND	79.0	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	1.65		"	2.00		82.4	30-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	1.25		"	2.00		62.4	30-120				



**Polychlorinated Biphenyls by GC/ECD - 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
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**Batch BL30462 - EPA 3550C**

**Blank (BL30462-BLK2)**

Prepared & Analyzed: 12/07/2023

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0467		"	0.0667		70.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0447		"	0.0667		67.0	30-140				

**LCS (BL30462-BS2)**

Prepared & Analyzed: 12/07/2023

Aroclor 1016	0.287	0.0167	mg/kg wet	0.333		86.2	40-130				
Aroclor 1260	0.295	0.0167	"	0.333		88.5	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0400		"	0.0667		60.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0393		"	0.0667		59.0	30-140				



**Chlorinated Herbicides by GC/ECD - 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
<b>Batch BL30148 - EPA 3535A/1311</b>											
<b>Blank (BL30148-BLK1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	ND	5.00	ug/L								
2,4-D	ND	5.00	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	94.2		"	125		75.4	10-150				
<b>LCS (BL30148-BS1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	36.5	5.00	ug/L	40.0		91.2	10-139				
2,4-D	40.8	5.00	"	40.0		102	10-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	116		"	125		93.0	10-150				
<b>LCS Dup (BL30148-BSD1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	16.5	5.00	ug/L	40.0		41.2	10-139		75.5	30	Non-dir.
2,4-D	19.2	5.00	"	40.0		48.1	10-140		71.7	30	Non-dir.
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	73.8		"	125		59.0	10-150				
<b>Leach Fluid Blank (BL30148-LBK1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
2,4,5-TP (Silvex)	ND	5.00	ug/L								
2,4-D	ND	5.00	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	96.5		"	125		77.2	10-150				
<b>Matrix Spike (BL30148-MS1)</b> <span style="float:right">Prepared: 12/04/2023 Analyzed: 12/05/2023</span>											
	*Source sample: 23K1898-32 (Matrix Spike)										
2,4,5-TP (Silvex)	12.5	5.00	ug/L	40.0	ND	31.2	20-140				
2,4-D	14.2	5.00	"	40.0	ND	35.6	20-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	22.8		"	125		18.2	10-150				



**Gas Chromatography/Flame Ionization Detector - 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
<b>Batch BK31831 - EPA 5035A</b>											
<b>Blank (BK31831-BLK1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-GRO	ND	80.0	mg/kg wet								
Surrogate: SURR: p-Bromofluorobenzene	206		ug/L	200		103	52-146				
<b>Duplicate (BK31831-DUP1)</b>										Prepared & Analyzed: 12/01/2023	
*Source sample: 23K1690-02 (Duplicate)											
Total Petroleum Hydrocarbons-GRO	1200	105	mg/kg dry		1040				14.0	30	
Surrogate: SURR: p-Bromofluorobenzene	174		ug/L	200		86.9	52-146				
<b>Matrix Spike (BK31831-MS1)</b>										Prepared & Analyzed: 12/01/2023	
*Source sample: 23K1690-02 (Matrix Spike)											
Total Petroleum Hydrocarbons-GRO	16300		ug/L	8000	7970	103	70-130				
Surrogate: SURR: p-Bromofluorobenzene	167		"	200		83.7	52-146				
<b>Reference (BK31831-SRM1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-GRO	140	20.0	mg/kg wet	237		59.0	24.9-274				
Surrogate: SURR: p-Bromofluorobenzene	200		ug/L	200		99.9	52-146				
<b>Batch BK31986 - EPA 3550C</b>											
<b>Blank (BK31986-BLK1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-DRO	ND	9.90	mg/kg wet								
Surrogate: Triacotane	7.03		"	9.90		71.0	30-150				
<b>LCS (BK31986-BS1)</b>										Prepared & Analyzed: 12/01/2023	
Total Petroleum Hydrocarbons-DRO	115	9.90	mg/kg wet	170		67.7	40-140				
Surrogate: Triacotane	7.31		"	9.90		73.8	30-150				
<b>Matrix Spike (BK31986-MS1)</b>										Prepared & Analyzed: 12/01/2023	
*Source sample: 23K1713-01 (Matrix Spike)											
Total Petroleum Hydrocarbons-DRO	148	10.5	mg/kg dry	180	10.5	76.4	30-150				
Surrogate: Triacotane	7.59		"	10.5		72.6	30-150				



**Gas Chromatography/Flame Ionization Detector - 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
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**Batch BK31986 - EPA 3550C**

<b>Matrix Spike Dup (BK31986-MSD1)</b>	<b>*Source sample: 23K1713-01 (Matrix Spike Dup)</b>							<b>Prepared &amp; Analyzed: 12/01/2023</b>			
Total Petroleum Hydrocarbons-DRO	158	10.5	mg/kg dry	180	10.5	82.2	30-150		6.79	30	
Surrogate: <i>Triacontane</i>	6.90		"	10.5		66.0	30-150				



**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
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**Batch BL30267 - EPA 3050B**

**Blank (BL30267-BLK1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

**Duplicate (BL30267-DUP1)**

\*Source sample: 23L0133-01 (Duplicate)

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	10600	5.10	mg/kg dry		8030				27.9	35	
Antimony	ND	2.55	"		ND					35	
Arsenic	6.17	1.53	"		2.07				99.6	35	Non-dir.
Barium	78.6	2.55	"		76.9				2.22	35	
Beryllium	ND	0.051	"		ND					35	
Cadmium	ND	0.306	"		ND					35	
Calcium	53500	5.10	"		55200				3.17	35	
Chromium	32.3	0.510	"		50.5				43.8	35	Non-dir.
Cobalt	6.80	0.408	"		6.76				0.509	35	
Copper	31.7	2.04	"		27.4				14.6	35	
Iron	13500	25.5	"		12000				11.9	35	
Lead	45.6	0.510	"		52.6				14.3	35	
Magnesium	7160	5.10	"		13800				63.2	35	Non-dir.
Manganese	234	0.510	"		281				18.4	35	
Nickel	25.3	1.02	"		84.5				108	35	Non-dir.
Potassium	2140	5.10	"		989				73.5	35	Non-dir.
Selenium	ND	2.55	"		ND					35	
Silver	ND	0.514	"		ND					35	
Sodium	388	51.0	"		243				46.1	35	Non-dir.
Thallium	ND	2.55	"		ND					35	
Vanadium	26.9	1.02	"		24.4				9.77	35	
Zinc	81.1	2.54	"		128				44.7	35	Non-dir.





**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

**Batch BL30267 - EPA 3050B**

<b>Matrix Spike (BL30267-MS1)</b>	<b>*Source sample: 23L0133-01 (Matrix Spike)</b>						<b>Prepared: 12/05/2023 Analyzed: 12/06/2023</b>			
Aluminum	8390	5.10	mg/kg dry	204	8030	176	75-125	High Bias		
Antimony	9.82	2.55	"	25.5	ND	38.5	75-125	Low Bias		
Arsenic	209	1.53	"	204	2.07	102	75-125			
Barium	259	2.55	"	204	76.9	89.5	75-125			
Beryllium	4.15	0.051	"	5.10	ND	81.4	75-125			
Cadmium	4.72	0.306	"	5.10	ND	92.5	75-125			
Calcium	71100	5.10	"	102	55200	NR	75-125	High Bias		
Chromium	186	0.510	"	20.4	50.5	666	75-125	High Bias		
Cobalt	50.6	0.408	"	51.0	6.76	85.9	75-125			
Copper	52.6	2.04	"	25.5	27.4	98.9	75-125			
Iron	11100	25.5	"	102	12000	NR	75-125	Low Bias		
Lead	83.7	0.510	"	51.0	52.6	60.9	75-125	Low Bias		
Magnesium	11000	5.10	"	102	13800	NR	75-125	Low Bias		
Manganese	280	0.510	"	51.0	281	NR	75-125	Low Bias		
Nickel	65.1	1.02	"	51.0	84.5	NR	75-125	Low Bias		
Potassium	1200	5.10	"	102	989	211	75-125	High Bias		
Selenium	205	2.55	"	204	ND	101	75-125			
Silver	2.10	0.514	"	5.10	ND	41.2	75-125	Low Bias		
Sodium	394	51.0	"	102	243	148	75-125	High Bias		
Thallium	170	2.55	"	204	ND	83.3	75-125			
Vanadium	73.9	1.02	"	51.0	24.4	97.2	75-125			
Zinc	472	2.54	"	51.0	128	675	75-125	High Bias		

<b>Post Spike (BL30267-PS1)</b>	<b>*Source sample: 23L0133-01 (Post Spike)</b>						<b>Prepared: 12/05/2023 Analyzed: 12/06/2023</b>			
Aluminum	79.9		ug/mL	2.00	78.7	57.8	75-125	Low Bias		
Antimony	0.243		"	0.250	0.013	92.2	75-125			
Arsenic	1.99		"	2.00	0.020	98.3	75-125			
Barium	2.61		"	2.00	0.754	92.9	75-125			
Beryllium	0.041		"	0.0500	-0.005	82.7	75-125			
Cadmium	0.045		"	0.0500	0.001	86.8	75-125			
Calcium	539		"	1.00	541	NR	75-125	Low Bias		
Chromium	0.670		"	0.200	0.495	87.7	75-125			
Cobalt	0.510		"	0.500	0.066	88.7	75-125			
Copper	0.520		"	0.250	0.268	101	75-125			
Iron	117		"	1.00	118	NR	75-125	Low Bias		
Lead	0.943		"	0.500	0.516	85.4	75-125			
Magnesium	134		"	1.00	135	NR	75-125	Low Bias		
Manganese	3.18		"	0.500	2.75	85.4	75-125			
Nickel	1.25		"	0.500	0.829	85.2	75-125			
Potassium	10.6		"	1.00	9.70	85.7	75-125			
Selenium	1.96		"	2.00	-0.003	97.8	75-125			
Silver	0.018		"	0.0500	-0.032	35.3	75-125	Low Bias		
Sodium	4.22		"	1.00	2.38	184	75-125	High Bias		
Thallium	1.65		"	2.00	-0.008	82.4	75-125			
Vanadium	0.699		"	0.500	0.239	92.0	75-125			
Zinc	1.70		"	0.500	1.25	89.6	75-125			



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Level					Result			

**Batch BL30267 - EPA 3050B**

**Reference (BL30267-SRM1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Aluminum	7550	4.17	mg/kg wet	9490		79.5	45.4-128.6						
Antimony	59.9	2.08	"	248		24.1	3-103.2						
Arsenic	124	1.25	"	163		76.0	68.7-100.6						
Barium	271	2.08	"	319		85.1	82.5-115.7						
Beryllium	93.4	0.042	"	119		78.5	77.7-109.2						
Cadmium	103	0.250	"	130		79.0	75.2-106.2						
Calcium	4270	4.17	"	5000		85.4	80.6-114.4						
Chromium	133	0.417	"	153		87.2	77.8-111.8						
Cobalt	133	0.333	"	153		87.1	79.1-109.8						
Copper	225	1.67	"	245		91.9	80.4-111						
Iron	6770	20.8	"	7540		89.8	69.8-144.6						
Lead	185	0.417	"	220		84.0	80-113.6						
Magnesium	1840	4.17	"	1980		92.8	85.9-129.3						
Manganese	388	0.417	"	431		90.1	79.6-114.2						
Nickel	151	0.830	"	175		86.5	76.6-108.6						
Potassium	1410	4.17	"	1570		89.6	80.9-131.2						
Selenium	147	2.08	"	156		94.3	80.8-118.6						
Silver	43.6	0.420	"	82.9		52.6	76.7-114.7						Low Bias
Sodium	558	41.7	"	453		123	72.2-119.7						High Bias
Thallium	75.2	2.08	"	99.4		75.6	75.8-110.7						Low Bias
Vanadium	140	0.830	"	170		82.6	75.3-114.1						
Zinc	336	2.08	"	201		167	79.6-115.92						High Bias

**Batch BL30425 - EPA 3015A/1311**

**Blank (BL30425-BLK1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	ND	0.017	mg/L										
Barium	ND	0.028	"										
Cadmium	ND	0.003	"										
Chromium	ND	0.006	"										
Lead	ND	0.006	"										
Selenium	ND	0.028	"										
Silver	ND	0.006	"										



**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
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**Batch BL30425 - EPA 3015A/1311**

**LCS (BL30425-BS1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	1.69		ug/mL	2.00		84.3	80-120				
Barium	1.93		"	2.00		96.4	80-120				
Cadmium	0.045		"	0.0500		89.1	80-120				
Chromium	0.179		"	0.200		89.7	80-120				
Lead	0.451		"	0.500		90.2	80-120				
Selenium	1.43		"	2.00		71.7	80-120	Low Bias			
Silver	0.045		"	0.0500		89.3	80-120				

**Duplicate (BL30425-DUP1)**

\*Source sample: 23L0158-02 (Duplicate)

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	ND	0.375	mg/L		ND						20
Barium	ND	0.625	"		ND						20
Cadmium	ND	0.075	"		ND						20
Chromium	ND	0.125	"		ND						20
Lead	ND	0.125	"		ND						20
Selenium	ND	0.625	"		ND						20
Silver	ND	0.125	"		ND						20

**Leach Fluid Blank (BL30425-LBK1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	ND	0.375	mg/L								
Barium	ND	0.625	"								
Cadmium	ND	0.075	"								
Chromium	ND	0.125	"								
Lead	ND	0.125	"								
Selenium	ND	0.625	"								
Silver	ND	0.125	"								

**Matrix Spike (BL30425-MS1)**

\*Source sample: 23L0158-02 (Matrix Spike)

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	46.5	0.375	mg/L	50.0	ND	93.0	75-125				
Barium	49.9	0.625	"	50.0	ND	99.8	75-125				
Cadmium	1.20	0.075	"	1.25	ND	95.7	75-125				
Chromium	4.67	0.125	"	5.00	ND	93.4	75-125				
Lead	11.7	0.125	"	12.5	ND	93.6	75-125				
Selenium	39.9	0.625	"	50.0	ND	79.8	75-125				
Silver	1.09	0.125	"	1.25	ND	86.9	75-125				



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL30425 - EPA 3015A/1311**

**Post Spike (BL30425-PS1)**

\*Source sample: 23L0158-02 (Post Spike)

Prepared: 12/07/2023 Analyzed: 12/08/2023

Arsenic	1.84		ug/mL	2.00	-0.014	92.1	75-125				
Barium	2.01		"	2.00	0.004	100	75-125				
Cadmium	0.047		"	0.0500	-0.00004	94.1	75-125				
Chromium	0.185		"	0.200	0.001	92.1	75-125				
Lead	0.461		"	0.500	-0.005	92.2	75-125				
Selenium	1.56		"	2.00	-0.011	78.1	75-125				
Silver	0.049		"	0.0500	-0.0008	98.5	75-125				



**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
<b>Batch BL30215 - EPA SW846-7470A</b>											
<b>Blank (BL30215-BLK1)</b> Prepared & Analyzed: 12/05/2023											
Mercury	ND	0.000200	mg/L								
<b>Blank (BL30215-BLK2)</b> Prepared & Analyzed: 12/05/2023											
Mercury	ND	0.000200	mg/L								
<b>LCS (BL30215-BS1)</b> Prepared & Analyzed: 12/05/2023											
Mercury	0.00212	0.000200	mg/L	0.00200		106	80-120				
<b>LCS (BL30215-BS2)</b> Prepared & Analyzed: 12/05/2023											
Mercury	0.00202	0.000200	mg/L	0.00200		101	80-120				
<b>Leach Fluid Blank (BL30215-LBK1)</b> Prepared & Analyzed: 12/05/2023											
Mercury	0.000148	0.000200	mg/L								
<b>Batch BL30481 - EPA 7473 soil</b>											
<b>Blank (BL30481-BLK1)</b> Prepared & Analyzed: 12/07/2023											
Mercury	ND	0.0300	mg/kg wet								
<b>Duplicate (BL30481-DUP1)</b> *Source sample: 23K1831-01 (IV5_WC-01) Prepared & Analyzed: 12/07/2023											
Mercury	1.07	0.0346	mg/kg dry		3.04				96.0	35	Non-dir.
<b>Matrix Spike (BL30481-MS1)</b> *Source sample: 23K1831-01 (IV5_WC-01) Prepared & Analyzed: 12/07/2023											
Mercury	1.30		mg/kg	0.500	2.64	NR	75-125	Low Bias			
<b>Reference (BL30481-SRM1)</b> Prepared & Analyzed: 12/07/2023											
Mercury	19.548		mg/kg	18.2		107	59.9-140.1				



**Wet Chemistry Parameters - 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
<b>Batch BL30146 - Analysis Preparation</b>											
<b>Blank (BL30146-BLK1)</b>											Prepared & Analyzed: 12/04/2023
Reactivity - Sulfide	ND	15.0	mg/kg								
<b>Duplicate (BL30146-DUP1)</b> *Source sample: 23K1862-01 (Duplicate)											Prepared & Analyzed: 12/04/2023
Reactivity - Sulfide	24.0	15.0	mg/kg		19.0				23.3	50	
<b>Batch BL30147 - Analysis Preparation</b>											
<b>Blank (BL30147-BLK1)</b>											Prepared & Analyzed: 12/04/2023
Reactivity - Cyanide	Non-Reactive	0.250	mg/kg								
<b>Batch BL30313 - Analysis Preparation</b>											
<b>Duplicate (BL30313-DUP1)</b> *Source sample: 23L0238-07 (Duplicate)											Prepared & Analyzed: 12/06/2023
pH	11.3	0.500	pH units		11.3				0.531	10	



Miscellaneous Physical Parameters - 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
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**Batch BL30153 - % Solids Prep**

<b>Duplicate (BL30153-DUP1)</b>	*Source sample: 23K1831-01 (IV5_WC-01)						Prepared & Analyzed: 12/04/2023				
% Solids	86.1	0.100	%		86.6				0.511	20	





**Leachate Preparations - 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
<b>Batch BL30046 - EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS</b>											
<b>Blank (BL30046-BLK1)</b>											
Prepared: 12/01/2023 Analyzed: 12/02/2023											
TCLP Extraction	Completed	1.00	N/A								
<b>Batch BL30051 - EPA SW 846-1311 TCLP ext. for metals</b>											
<b>Blank (BL30051-BLK1)</b>											
Prepared: 12/01/2023 Analyzed: 12/02/2023											
TCLP Extraction	Completed	1.00	N/A								
<b>Batch BL30053 - EPA SW 846-1311 TCLP ZHE for VOA</b>											
<b>Blank (BL30053-BLK1)</b>											
Prepared: 12/01/2023 Analyzed: 12/04/2023											
TCLP Extraction	Completed	1.00	N/A								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K1831-01	IV5_WC-01	40mL 01_Clear Vial Cool to 4° C
23K1831-01	IV5_WC-01	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
23K1831-03	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

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.
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.
P	This qualifier indicates the compound detected exhibited greater than 40% between the quantitation and confirmatory columns.
NonReac	Non-Reactive
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
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.
IGN-01	Non-Ignit.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
EXT-Temp	Extraction temperature slightly exceeded acceptance range.
EXT-COMP	Completed
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 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.



# Field Chain-of-Custody Record

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.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

**YORK Project No.** 23K1831 **Page** 1 **of** 1

**YOUR Information**  
 Company: LaBella Associates  
 Address: 4 Bethsh American Latham, NY 12110  
 Phone: \_\_\_\_\_  
 Contact: Branson Fields  
 E-mail: bfields@labella.com

**Report To:** IL  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

**Invoice To:** " "  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 E-mail: APPK@labella.com

**YOUR Project Number** 2000335  
**YOUR Project Name** IVS - Brookfield Newburgh  
**YOUR PO#:** 2000335

**Turn-Around Time**  
 RUSH - Next Day  
 RUSH - Two Day  
 RUSH - Three Day  
 RUSH - Four Day  
 RUSH - Five Day  
**Standard (6-9 Day)**   
 PFAS Standard is 7-10 Days

*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.*

**Report / EDD Type (circle selections)**  
 Summary Report  EQUIS (Standard)  
 QA Report \_\_\_\_\_ CT RCP DQA/DUE NYSDEC EQUIS  
 CMDP \_\_\_\_\_ NUDEP Reduced NJDKQP  
 Standard Excel EDD \_\_\_\_\_ Deliverables NUDEP SRP HazSite  
 NY ASP B Package Other: \_\_\_\_\_

**YORK Reg. Comp.**  
 Compared to the following Regulation(s): (please fill in)

Sample Identification	Matrix Codes	Matrix	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
IVS - WC-01	S - soil / solid	S	5	11/29/23 1200	TCL VOCs, TCL SVOCs, TAL Metals; PCBs pH, ignitability, reactive sulfide/cyanide, TPH DRD/BRO; TCLP VOCs, SVOCs, TAL Metals; Pesticides, Herbicides; PFAS (1633)	8oz, 4oz, 14.7	8
IVS - WC- FB	GW - groundwater	QA/QC		11/29/23 1235	PFAS (1633)	250ml	2
Top Blank	DW - drinking water	QA/QC		11/29/23 1300	TCL VOCs	40ml	2
	WW - wastewater						
	O - Oil						
	Other:						

**Comments:**

Samples iced/chilled at time of lab pickup? circle Yes or No  Yes  No

1. Samples Relinquished by / Company  
 Branson Fields / Labella 11/29/23 15:00  
 Date/Time

2. Samples Received by / Company  
 Charles Carteri 11/30/23 10:10  
 Date/Time

3. Samples Relinquished by / Company  
 Labella POK Sample fridge 11/29/23 15:00  
 Date/Time

3. Samples Received by / Company  
 Charles Carteri 11/30/23 15:00  
 Date/Time

4. Samples Relinquished by / Company  
 Samples Received in LAB by  
 [Signature] 11/30/23 15:00  
 Date/Time

Temperature  
 1.6  
 Degrees C

**Preservation: (check all that apply)**  
 HCl  MeOH  HNO3 \_\_\_\_\_ H2SO4 \_\_\_\_\_ NaOH \_\_\_\_\_  
 ZnAc \_\_\_\_\_ Ascorbic Acid \_\_\_\_\_ Other: IVE

2. Samples Relinquished by / Company  
 Charles Carteri 11/30/23  
 Date/Time

3. Samples Received by / Company