Remedial Investigation Alternatives Analysis Report

3077 Union Road Site
Orchard Park, New York
BCP Site No. C915349

April 2025

Prepared for:

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REMEDIAL INVESTIGATION ALTERNATIVES ANALYSIS REPORT

3077 UNION ROAD SITE
ORCHARD PARK, NEW YORK
BCP SITE No. C915349

Revised April 2025 0105-017-001

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Certification

I, Thomas H. Forbes, certify that I am currently a NYS registered professional engineer as defined in 6NYCRR Part 375 and that this April 2025 Remedial Investigation/Alternatives Analysis Report (RI/AAR) for the 3077 Union Road Site (C915349) was prepared in general accordance with applicable statutes and regulations and in general conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that activities were performed in general accordance with the DER-approved work plan and any DER-approved modifications.

4-25-25

Date



1.0 INTRODUCTION

This Remedial Investigation/Alternatives Analysis (RI/AA) Report has been prepared by Roux Environmental Engineering and Geology, D.P.C. (formerly operating under Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) in association with TurnKey Environmental Restoration, LLC (TurnKey), Benchmark-TurnKey), on behalf of 570 DAB 4, LLC, for the 3077 Union Road Site located in the Town of Orchard Park, Erie County, New York (Site; see Figures 1 and 2).

570 DAB 4, LLC elected to pursue investigation, cleanup, and redevelopment of the Site under the New York State Brownfield Cleanup Program (BCP) and executed a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in January 2020 (Index No. C915349-01-20). The Remedial Investigation (RI) Work Plan was approved by the NYSDEC with concurrence of the New York State Department of Health (NYSDOH) in October 2020. Roux performed RI activities at the Site between January 2021 and June 2022. Supplemental RI activities, as requested by the NYSDEC, were completed on December 13, 2023 (additional boring/monitoring well installation) and January 12, 2024 (supplemental groundwater sampling).

1.1 Background

The 17.91-acre Site consists of one tax parcel designated as 3077 Union Road (SBL No. 152.12-4-6.1). The Site is located between Union Road and Southwestern Boulevard in a moderately developed commercial and residential area in the Town of Orchard Park, Erie County, New York. The Site is bordered by vacant wooded land and commercial properties to the north and south, Union Road to the west, and Southwestern Boulevard to the east. Prior to demolition activities completed in February 2021, the western portion of the Site was developed with two vacant structures, an associated asphalt parking lot and driveway, and greenspace. Building 1 and Building 2 have been demolished, but the concrete foundations remain. The undeveloped eastern portion of the Site is wooded vacant land.

The Site was identified as having been vacant/agricultural land until 1965. The Site has been commercial (western portion) and vacant wooded land (eastern portion) since 1965. Historical uses of former Building 1 included dry cleaning, automotive repair, and

other commercial tenants. Historical uses of former Building 2 included concrete/masonry contractor storage and equipment repair/maintenance.

Previous investigations identified that the historic use of the Site as a dry cleaner has impacted the Site as evidenced by chlorinated volatile organic compounds (cVOCs) that have been detected in the soil and groundwater exceeding 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs, Ref. 1), and T.O.G.S 1.1.1 Groundwater Quality Standards/Guidance Values (GWQS/GV, Ref. 2) Details of the previous investigations are presented in Section 1.2 below.

1.2 Previous Investigations

1.2.1 January 2018 – Phase I Environmental Site Assessment

TurnKey completed a Phase I Environmental Site Assessment (ESA), dated January 2018, on the subject Site (Ref. 3). TurnKey identified the following recognized environmental conditions (RECs) as they relate to the 3077 Union Road Site:

- The dry cleaner and septic system identified in a 1967 survey, due to the anticipated use of solvents and the potential for subsurface soil and/or groundwater impacts.
- Historic automotive repair at Building 1 and equipment repair/maintenance with a floor drain at Building 2.
- The remaining hazardous/regulated materials and vehicle components (engines, etc.) remaining at the Site will require proper off-site disposal if not intended for future use.

Due to the history of dry cleaning, automotive repair, and equipment repair/maintenance, TurnKey recommended a Phase II Environmental Investigation at 3077 Union Road to assess subsurface soil and groundwater conditions.

1.2.2 February 2018 – Phase II Environmental Investigation

TurnKey completed a Phase II Environmental Investigation, dated February 2018, on the subject Site (Ref. 4). The investigation consisted of sixteen soil borings (SB-1 through SB-16) with five piezometers (PZ-1 through PZ-5) installed. All soil borings and

piezometers were located on the western, developed portion of the Site near Union Road. Findings of the Phase II are detailed below:

- The highest photoionization detector (PID) reading identified during the work was 2,200 ppm at SB-7 (4-6 ft). PID readings decreased to 150 ppm at SB-7 at the deeper 6 to 7 ft interval.
- Laboratory analytical results revealed the presence of cVOC-impacted soil and groundwater east of the former dry cleaner at Building 1. The highest cVOC concentrations in soil and groundwater were identified at SB-7/PZ-3, located approximately five feet off the east wall of Building 1. Additional information relative to soil and groundwater impacts identified at the Site is provided below:
    - Soil: Tetrachloroethene (PCE) and its degradation compounds trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE) exceeded Part 375 Unrestricted SCOs (USCOs), Residential SCOs (RSCOs), and/or Protection of Groundwater SCOs (PGWSCOs) in soil samples collected from four soil borings (SB-3, SB-7, SB-8, and SB-11).
    - Soil: Toxic Characteristic Leaching Procedure (TCLP) PCE in soil at SB-7 (4-6 ft) was identified at a concentration (2.6 mg/L) exceeding its respective characteristic hazardous waste threshold (0.7 mg/L).
    - Groundwater: PCE and/or its degradation compounds TCE, cis-1,2-DCE, and vinyl chloride (VC) exceeded their respective GWQS/GV at PZ-2, PZ-3, and PZ-4. In addition, total xylenes exceeded its GWQS/GV at PZ-2.
- The source of the cVOC-impacted soil and groundwater is reasonably attributable to the historic dry cleaner formerly located within the previous Gold N Ham tenant space of former Building 1. Xylenes in water may be attributed to the dry cleaner if a Stoddard/petroleum-based solvent was used.
- Based on the proximity of the existing building to the cVOC impacts, there is the potential for cVOC-impacted soil and groundwater beneath the existing building slab

The elevated cVOC concentrations represent a potential vapor encroachment condition (VEC) whereby sub-slab soil vapor and/or indoor air with elevated concentrations of cVOCs may be present within the existing and future buildings if left unremediated.

1.2.3 January 2019 – Supplemental Phase II Environmental Investigation Report

TurnKey completed a Supplemental Phase II Environmental Investigation, dated January 2019, at the subject Site (Ref. 5). The investigation consisted of one overburden

monitoring well (MW-1) and three (3) bedrock monitoring wells (MW-1D, MW-2D, and MW-4D). Findings of the Supplemental Phase II are detailed below:

- TurnKey's initial Phase II activities completed at the Site in January 2018 identified total cVOC concentrations in overburden soil up to 120 mg/kg (SB-7) and total cVOC concentrations in overburden groundwater up to 56,020 ug/L (PZ-3). SB-7/PZ-3 is located directly east of the former dry cleaner. Overburden total cVOC concentrations up to 38,100 ug/L (PZ-3) were observed during the supplemental overburden groundwater sampling activities in January 2019.
- cVOCs in bedrock groundwater were not detected or were detected at concentrations significantly below their respective GWQS/GVs, with the exception of VC at MW-2D (4.7 ug/L), which slightly exceeded its GWQS/GV (2 ug/L).

In conclusion, cVOC-impacted soil and overburden groundwater is present on-Site, which will require remediation.

Table 1 summarizes the samples collected and analyzed during the Phase II investigations and Phase II soil and groundwater analytical results are summarized in Tables 5 through 7. Phase II investigation locations and results are shown on Figure 3.

1.3 Purpose and Scope

This RI/AA Report has been prepared on behalf of 570 DAB 4, LLC to describe and present the findings of the RI activities and evaluate remedial alternatives for the Site.

This report contains the following sections:

- Section 2.0 presents the approach for the RI
- Section 3.0 describes the physical characteristics of the Site as they pertain to the investigation results
- Section 4.0 presents the investigation results by media
- Section 5.0 describes the fate and transport of the contaminants of concern (COCs)
- Section 6.0 presents the qualitative exposure assessment
- Section 7.0 evaluates remedial alternatives for the Site

- Section 8.0 presents the RI/AAR summary and conclusions
- Section 9.0 provides a list of references

2.0 REMEDIAL INVESTIGATION APPROACH

The RI scope of work focused on further defining the nature and extent of contamination on the BCP Site and obtaining data of sufficient quantity and quality to perform the remedial alternatives evaluation in accordance with NYSDEC DER-10 (Ref. 6). Field activities included: excavation of test pits (TPs), advancement of exterior and interior soil borings (SBs); monitoring well (MW)/piezometer (PZ) installation; soil vapor (SV) sampling; surface and subsurface soil/fill sampling; groundwater sampling; sediment sampling; surface water sampling; collection of field and hydrogeologic data; a sewer and drain investigation; and an inspection of Building 2, which has since been demolished. The RI tasks were performed in accordance with the approved RI Work Plan (March 2021, Ref. 7).

Field team personnel collected environmental samples (i.e., subsurface soil/fill, soil vapor, and groundwater) in accordance with the rationale and protocols described in the Sampling and Analysis Plan (SAP) of the Quality Assurance Project Plan (QAPP) (included in the RI Work Plan). Representative environmental samples were collected during the RI using dedicated sampling devices and were placed in pre-cleaned laboratory provided sample containers, cooled to 4ºC in the field, and transported under chain-of-custody command to a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory.

Samples for chemical analysis were analyzed in accordance with United States Environmental Protection Agency (USEPA) SW-846 methodologies to meet the definitive-level data requirements. A Category B deliverable package was provided for each sample delivery group to allow independent third-party data validation and provide defensible data. Analytical results were evaluated by a third-party data validation expert in accordance with provisions described in the QAPP. The investigation activities are described below. Table 1 summarizes the samples collected and analyzed during the RI, Tables 4 through 10 summarize Phase II and RI analytical data and Figures 3 through 6B present the RI sample locations. Appendix A contains photographs of field activities.

2.1 Building 2 Inspection

The interior of Building 2 was inspected prior to RI and demolition activities, including areas previously inaccessible during the Phase I. The Phase I identified a floor

drain and various hazardous/regulated materials in containers of five gallons or less in the eastern portion of Building 2. A floor drain with sediment was discovered in the western portion of Building 2. The sediment was examined for odors/sheen and a sample was collected for analytical analysis, as further discussed in Section 2.6. No sediment was discovered in the eastern floor drain. The abandoned hazardous/regulated materials discovered during the Phase I including hydraulic oil, muriatic acid, clean strip, insulite, latex bending mixture, and roof cement were removed from the Site by the property owner for off-site reuse.

2.2 Sewer and Drain Investigation

Two sanitary sewer manholes were observed on the property, one located east of the north end of Building 1, and one located southeast of Building 1. Roux conducted a sewer and drain investigation on the sanitary sewer line that runs north-south between the manholes to identify if the sewer line is a potential off-site migration pathway for cVOCs. The investigation included a sewer inspection, in which the orientation of the sewer penetrations were identified and sediment in each of the manholes was evaluated for visual or olfactory evidence of impacts by cVOCs.

2.3 RI Soil/Fill Investigation

A soil/fill investigation was completed across the Site to supplement the previous environmental data and to further investigate contamination at the Site. The soil/fill investigation included test pit excavations, interior and exterior soil boring advancement, and collection of surface and subsurface soil/fill samples. Figure 3 presents the RI sample locations.

2.3.1 Surface Soil/Fill Investigation

A total of 20 surface soil/fill samples were collected across the Site including four surface soil samples in the western, developed portion (SS-1 through SS-4) and 16 surface soil samples in the eastern, undeveloped portion, as shown on Figure 3. Surface soil samples were collected on September 19, 2021 and June 14, 2022. Surface soil samples were collected from 0 to 2 inches below ground surface. If the area was vegetated the sod/vegetation was

removed prior to sample collection. Representative samples were described in the field by qualified Roux personnel, scanned for total volatile organic vapors with a calibrated Photovac 2000 PID equipped with a 10.6 eV lamp (or equivalent), and characterized for impacts via visual and/or olfactory observations.

2.3.2 Surface Soil/fill Sample Collection and Analyses

Surface soil/fill samples were collected using dedicated stainless steel sampling tools and were placed in pre-cleaned laboratory provided sample bottles, cooled to 4ºC in the field, and transported under chain-of-custody command to a NYSDOH ELAP-certified analytical laboratory. All 20 surface soil samples were analyzed for Target Compound List (TCL) Semi-volatile organic compounds (SVOCs) including 1,4-dioxane, and Target Analyte List (TAL) metals and select samples were also analyzed for polychlorinated biphenyls (PCBs), pesticides, herbicides, and per- and polyfluoroalkyl substances (PFAS). No surface soil samples were analyzed for volatile organic compounds (VOCs) as PID readings were below 5 ppm.

2.3.3 Subsurface Soil/Fill Investigation

A total of nine investigation locations including seven internal soil borings (SB-17 through SB-23), one exterior soil boring (MW-8), and one test pit (TP-1) were completed in the overburden in the western portion of the Site. TP-1 was advanced east of Building 1 and proximate to the former dry cleaner, where significant impacts were observed in the soil/fill during previous investigations. Six of the interior soil borings (SB-17 through SB-22) were advanced inside former Building 1 and one interior soil boring (SB-23) was advanced inside former Building 2 (these buildings had not been demolished at the time of RI activities). Three of the interior soil borings (SB-17, SB-21, and SB-23) were converted into piezometers (PZ-6, PZ-7, and PZ-8, respectively). MW-8, advanced adjacent to the northeast corner of Building 1, was converted into an overburden monitoring well. Additionally, one bedrock soil boring (MW-8D) was completed adjacent to MW-8 for installation of a bedrock monitoring well at this location.

A total of six soil borings (MW-9 through MW-14) and 33 test pits (TP-2 through TP-34) were completed in the overburden in the eastern portion of the Site to investigate the subsurface and collect soil samples. The six soil borings were converted into overburden

monitoring wells. As no environmental samples had been collected from this area during previous investigations, these locations were selected to assess potential soil and/or groundwater impacts due to historic Site activities.

Exterior soil borings were completed January 27 and 29, 2021, interior soil borings were completed April 4, 2021, and test pits were completed September 13 through 15, 2021. Interior soil borings were advanced with a track-mounted direct-push rig to depths of 7 to 11 feet below ground surface (fbgs). Exterior soil borings were advanced using a traditional hollow stem auger (HSA) drill rig to depths of 5 to 10 fbgs. The bedrock soil boring was advanced using an HSA drill rig until equipment refusal at bedrock. An NQ-2 core barrel was used to advance the boring to a depth of 20 fbgs, 13 ft below bedrock. Test pits were advanced with an excavator to depths ranging between 2.5 and 10 fbgs. Test pits were backfilled after completion with excavated material in reverse order. Soil boring cuttings were containerized in 55-gallon drums, labeled, and stored on-Site in accordance with the Investigation Derived Waste (IDW) section of the approved RI Work Plan. As further discussed below in Section 2.9, IDW has since been disposed off-site.

Subsequent to the work discussed above, as requested by the NYSDEC and in accordance with the approved Supplemental Piezometer Installation and Sampling Work Plan, an additional boring, PZ-9, was completed off the southeast corner of former Building 1. As further detailed below, this soil boring was converted into a monitoring well.

Retrieved soil/fill samples allowed for visual, olfactory, and PID assessment of subsurface conditions. Subsurface soil/fill samples were collected for laboratory analysis per the approved RI Work Plan (see Table 1). Soil boring and test pit logs are provided in Appendix B.

2.3.4 Subsurface Soil/Fill Sample Collection and Analyses

A total of 28 subsurface soil/fill samples were collected during the RI. Subsurface soil/fill samples were collected using dedicated stainless steel sampling tools and were placed in pre-cleaned laboratory provided sample bottles, cooled to 4ºC in the field, and transported under chain-of-custody command to a NYSDOH ELAP-certified analytical laboratory.

Select subsurface soil samples were analyzed for TCL VOCs, TCL SVOCs including 1,4-dioxane, TAL metals, PCBs, pesticides, herbicides, and PFAS as detailed on Table 1.

All RI samples were collected and analyzed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

2.4 Groundwater Investigation

Roux personnel provided oversight for the installation of seven shallow groundwater monitoring wells, identified as MW-8 through MW-14, one bedrock well, identified as MW-8D, and four piezometers, identified as PZ-6 through PZ-9. These monitoring wells/piezometers were installed to supplement the existing overburden well (MW-1), bedrock wells (MW-1D, MW-2D, and MW-4D), and piezometers (PZ-2 through PZ-5) and investigate on-Site groundwater flow direction and quality. Details of the well installation, well development, and groundwater sampling are provided below. Figure 3 presents the location of the monitoring well network.

2.4.1 RI Piezometer and Monitoring Well Installation

As described in the approved RI Work Plan, piezometers were installed after completion of interior soil boring advancement with a track-mounted direct-push rig to depths between 7 and 11 fbgs. Shallow groundwater monitoring wells were installed after completion of exterior soil boring advancement, with a drill rig capable of advancing hollow-stem augers to between 5 and 10 fbgs. The bedrock well was installed after completion of soil boring advancement with a drill rig capable of advancing HSAs to bedrock (approximately 7 fbgs) and a NQ-2 core barrel to advance the boring to 13 ft below the top of bedrock. Piezometers were installed on April 5, 2021 and December 13, 2023, and monitoring wells were installed on January 27 and January 29, 2021.

Piezometer and monitoring well construction details are presented in Table 2. Locations of the piezometers and monitoring wells are presented on Figure 3.

2.4.2 Piezometer and Monitoring Well Development

The newly installed and existing piezometers and monitoring wells were developed between February 2, 2021 through February 4, 2021 and in December 2023 in accordance with the approved work plans and Roux and NYSDEC protocols. Development was

completed with PVC bailers via surge and purge methodology. Field parameters including pH, temperature, turbidity, dissolved oxygen (DO), oxidation reduction potential (ORP), and specific conductance were measured during development until they became relatively stable. Stability was defined as variation between measurements of approximately 10 percent or less with no overall upward or downward trend in the measurements; or a minimum of three well volumes. Development waters were containerized in 55-gallon drums, labeled, and stored on-site in accordance with the IDW section of the approved RI Work Plan. As further discussed below in Section 2.9, IDW has since been disposed off-site.

2.4.3 Groundwater Sample Collection and Analyses

Groundwater samples were collected on February 4, 2021 and April 6, 2021 from 5 of the 8 overburden wells, four (4) bedrock wells, and seven (7) piezometers in accordance with the NYSDEC-approved RI Work Plan. An additional round of groundwater sampling from overburden monitoring wells on the western portion of the Site was completed on January 12, 2024; groundwater samples were collected from MW-1, MW-8, PZ-2, PZ-4, PZ-5, PZ-6, PZ-7, PZ-8, and newly installed monitoring well, PZ-9. Groundwater samples could not be collected from MW-10, MW-11, or MW-14 as all three wells have remained dry with no production of groundwater since their installation. Groundwater samples were collected using dedicated bailers. Field measurements for pH, temperature, turbidity, DO, ORP, specific conductance and water levels, as well as visual and olfactory field observations, were periodically recorded and monitored for stabilization. All collected groundwater samples were placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to a NYSDOH ELAP-certified analytical laboratory.

All 16 groundwater samples from initial sampling activities were analyzed for TCL VOCs and select samples were also analyzed for SVOCs, TAL metals, PCBs, pesticides, herbicides, 1,4-dioxane, and PFAS in accordance with the approved RI Work Plan and detailed on Table 1. Groundwater samples collected from during the 2024 event were analyzed for TCL VOCs. All sampling was performed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

2.5 Soil Vapor Investigation

As the former on-Site buildings were demolished, a soil vapor intrusion investigation was not completed in Building 1 or Building 2 during the RI. However, four soil vapor samples were collected from the western portion of the Site to evaluate whether VOC vapors from the former dry-cleaning operation have migrated into the shallow soils of the Site.

Each soil vapor sampling probe was installed using specialized stainless-steel soil probe rods. Soil boreholes were advanced using ¾-inch inside diameter steel rods in accordance with the RI Work Plan. The steel rod was equipped with an anchor point at the driving end of the rod. The anchor point was connected to the sampling screen and tubing on the inside of the steel rod. Once the steel rod was advanced to the target depth, the steel rod was retracted, leaving the anchor point, sampling screen and sampling tubing within the borehole annulus. Glass beads were poured around the sampling screen in a manner to cover the entire length of the sampling screen. Bentonite or bentonite/soil mixture was placed above the glass beads to the ground surface to create a seal to prohibit infiltration of ambient air into the sampling area.

Once the sample probes were installed, the probe and tubing was purged (three volumes) using a calibrated syringe as required by NYSDOH guidance and helium tracer gas was used during the purging phase to ensure that the probes were well sealed. Samples were collected over an approximate 8-hour period.

Three of the four soil vapor samples were collected from beneath the former Building 1 footprint. Specifically, SV-1 was collected from north of the former dry cleaner, SV-2 was collected south of the former dry cleaner, and SV-3 was collected southeast of the former dry cleaner. The fourth soil vapor sample (SV-4) was collected from beneath the parking lot west of Building 1. Soil vapor sample locations are shown on Figure 3. One ambient outdoor air (OA) sample was also collected concurrent with the soil vapor samples. The outdoor field-located air sample was collected from ground level at an upwind location at the Site, as determined on the day of soil vapor sampling activities (Figure 3). The sampling was completed in general conformance with the NYSDOH Soil Vapor Intrusion Guidance (October 2006, Ref. 8) and Roux's Ambient Air and Sub-Slab Vapor Sampling Field Operating Procedures. SV and OA samples were sent to a NYSDOH-approved laboratory for analysis of USEPA TCL VOCs in accordance with USEPA Method TO-15.

2.6 Surface Water and Sediment Investigation

An unnamed, intermittent stream enters the Site from the eastern boundary, flows north through the eastern end of the Site, and exits the Site through the northern boundary. Two sediment samples (SED-1 and SED-2) and two surface water samples (SW-1 and SW-2) were collected from the stream as shown on Figure 3, one each at the culvert on the west side of Southwestern Boulevard and downstream along the northern boundary. The samples were analyzed for TCL VOCs, TCL SVOCs, metals, PCBs, pesticides, and herbicides, in accordance with the sampling and analysis plan (see Table 1). As discussed in Section 2.1, an additional sediment sample (SED-3) was collected from the western Building 2 floor drain and analyzed for TCL VOCs, TCL SVOCs, metals, PCBs, pesticides, and herbicides.

2.7 Field Specific Quality Assurance/Quality Control Sampling

In addition to the subsurface soil/fill and groundwater samples described above, field-specific quality assurance/quality control (QA/QC) samples were collected and analyzed to ensure the reliability of the generated data as described in the QAPP and to support the required third-party data usability assessment effort. Site-specific QA/QC samples included matrix spikes, matrix spike duplicates, blind duplicates, and equipment and trip/field blanks.

2.8 Site Mapping

A Site map was developed for the RI based on Roux personnel field measurements and marked Site map with the locations of all soil borings, test pits, piezometers, monitoring wells, soil vapor/outdoor air points, and sediment/surface water sample locations. Monitoring well elevations were measured by Roux's surveyor. Isopotential maps showing the general direction of overburden and bedrock groundwater flow were prepared based on water level measurements relative to an arbitrary Site datum of 500 feet (see Figures 6A and 6B).

2.9 Decontamination & Investigation-Derived Waste Management

Every attempt was made to utilize dedicated sampling equipment during the RI, however, if non-dedicated equipment was required and/or used (e.g., spilt spoons) it was

decontaminated with a non-phosphate detergent (i.e., Alconox®) and potable water mixture, rinsed with distilled water, and air-dried before each use in accordance with the field operating procedure (FOP).

Soil cuttings and development waters were containerized in 55-gallon drums, labeled, and temporarily stored on-Site in accordance with the approved RI Work Plan. The Site was listed as a USEPA Resource Conservation and Recovery Act (RCRA) large-quantity generator (RCRA ID No. NYR000251389) in connection with these wastes that were disposed of off-site as further discussed below.

Thirteen drums of IDW produced during the RI, including eleven drums containing hazardous liquid waste and two drums containing hazardous solid waste (waste codes F001 and F002, characterized by spent halogenated solvents including TCE and PCE) were transported off-Site by Environmental Service Group, Inc. to Chemical Solvents, Inc. in Cleveland Ohio for disposal. Disposal documentation for investigation-derived waste is included in Appendix C.

3.0 SITE PHYSICAL CHARACTERISTICS

The physical characteristics of the Site observed during the RI are described in the following sections.

3.1 General Site Features and Site Topography

The Site is located between Union Road and Southwestern Boulevard in a moderately developed commercial and residential area in the Town of Orchard Park, Erie County, New York. The Site is bordered by vacant wooded land and commercial properties to the north and south, Union Road to the west, and Southwestern Boulevard to the east. The western portion of the Site was previously developed with two former commercial structures and an associated asphalt parking lot and driveway. Building 1 was a vacant plaza with historic tenants that included a dry cleaner and automotive repair. Building 2 was a storage and equipment repair/maintenance facility used by a contractor/masonry company. Building 1 and Building 2 have been demolished, but the concrete foundations remain. The undeveloped eastern portion of the Site is wooded vacant land.

The western portion of the Site is generally flat lying. The eastern portion of the Site has moderate topographic relief, with relatively high elevations observed proximate to Southwestern Boulevard, as compared to the remaining area of the Site. Exterior surfaces are primarily covered with green space, with some asphalt parking and driveways and former building foundations in the western portion. Precipitation (i.e., rain or melting snow) primarily infiltrates into the ground surface; precipitation that falls on the impervious surfaces moves to storm drains in the parking lots and roadways via overland flow. Surface and shallow groundwater flow are likely affected by various cycles of development and filling, as well as utilities and foundations.

3.2 Geology and Hydrogeology

3.2.1 Overburden

The Site is located within the Lake Erie-Niagara River major drainage basin, which is typified by little topographic relief that gently slopes westward towards Lake Erie and the Niagara River, except in the immediate vicinity of major drainage ways. The surficial geology

of the Erie-Ontario Lowlands has developed from lacustrine deposits or till that may contain both limestone and shale. According to the United States Department of Agriculture (USDA) Web soil survey, Site soils are characterized as Remsen silty clay loam with 3 to 8 percent slopes (RfB) and Remsen silty clay loam with 0 to 3 percent slopes (RFA). The Remsen silty clay loam is described as a somewhat poorly drained soil derived from calcareous or neutral shale (Ref. 9).

The Site overburden geology differs in the western, developed portion compared to the eastern, undeveloped portion of the Site. The overburden geology of the western portion of the Site is generally described as 0.3 to 4 ft of asphalt pavement and subbase or topsoil overlying mixtures of sand, silt, clay, and/or gravel to depths ranging between 2 and 12 fbgs. Weathered shale was observed underlying the overburden to depths ranging from 4 to 13 fbgs. Competent shale bedrock exists under the weathered shale. Fill was also observed between ground surface and 7 fbgs at boring locations surrounding Building 1 (SB-1, SB-2, SB-4, MW-1D, MW-2D, MW-4D, and MW-8/8D). A layer of red brick pieces was observed at SB-1 and SB-2 from under the asphalt to 2 fbgs. Fill material identified at these locations generally consisted of black/brown sand and gravel with silt and man-made materials (i.e., brick, cinders, ash, concrete). In addition, intermingled slag was noted in fill units in the former Building 1 foundation area and a proximate boring (MW-1D). The overburden geology of the eastern, undeveloped portion of the Site is generally described as 0.3 to 1 ft of topsoil over sandy lean clay to depths ranging between 2 and 7 fbgs over weathered shale to depths ranging between 2.5 to 10 fbgs. A mixture of sand, silt, and clay was also observed at several locations from ground surface to 5 fbgs. Fill was observed at one location, TP-30, from ground surface to 9.5 fbgs, overlying weathered shale, and consists of brown gravel with sand, silt, and man-made materials (concrete, brick, and asphalt).

3.2.2 Bedrock

Based on the bedrock geologic map of Erie County, the Site is situated over the Cashaqua and Middlesex Shales of the Sonyea Group, which are identified as Upper Devonian-aged gray shale with limestone nodules and basal black shale, respectively (see Ref. 10). Subsurface investigations completed during the Phase II and RI investigations determined depth to bedrock in the western portion of the Site ranging between

approximately 6.5 to 13 fbgs. During the RI, equipment refusal, likely due to bedrock, was observed in the eastern portion of the Site between 5 and 7.5 fbgs.

3.2.3 Hydrogeology

Water level measurements collected at overburden groundwater wells ranged from 1.6 fbgs to 5.07 fbgs. RI groundwater elevations collected from overburden wells on February 4, 2021 (with the exception of PZ-6, PZ-7, and PZ-8, which were collected on April 6, 2021) are shown on Figure 6A. The isopotential map depicts overburden groundwater at the Site generally flowing toward the northwest.

Water level measurements collected at bedrock groundwater wells (MW-1D, MW-2D, MW-4D, and MW-8D) ranged from 4.59 fbgs to 6.14 fbgs. Bedrock groundwater wells indicate lower water level elevations than at the corresponding overburden wells that rise above the top of the bedrock layer, suggesting confining or semi-confining conditions. RI groundwater elevations collected from bedrock wells on February 4, 2021 are shown on Figure 6B. The isopotential map depicts bedrock groundwater in the western portion of the Site generally flowing toward the northwest, consistent with overburden groundwater. No bedrock wells were installed in the eastern portion of the Site. Table 3 summarizes the groundwater elevation data.

3.2.4 Hydraulic Gradients

Using well installation and water level measurements collected during the RI, the estimated overburden hydraulic gradient was calculated to range from 0.031 ft/ft (measured between MW-12 and MW-1) to 0.039 ft/ft (measured between MW-13 and MW-8). The RI data indicates a northwesterly gradient in the overburden across the majority of the Site. The estimated bedrock hydraulic gradient was calculated to range between 0.014 ft/ft (measured between MW-2D and MW-1D) and 0.018 ft/ft (measured between MW-4D and MW-1D). The RI data indicates a general northwesterly gradient in the bedrock in the western portion of the Site. Further water level monitoring will be required to confirm these conditions.

4.0 INVESTIGATION RESULTS BY MEDIA

The nature and extent of contamination at the Site was further characterized using soil/fill and groundwater samples collected and analyzed as part of the RI. Samples collected during the Phase II investigations were used to supplement this RI.

Appendix D contains laboratory analytical data packages for samples analyzed from the RI. Analytical data discussed in this section includes results from the Phase II investigations and RI data collected by Roux personnel. Tabulated analytical results are shown only for those parameters for which a value greater than the method detection limit and was detected at a minimum of one sample location.

Table 1 summarizes the sampling and analytical program employed under the Phase II and RI. Surface and subsurface soil/fill, groundwater, soil vapor, sediment, and surface water analytical results are summarized on Tables 4 through 10

4.1 Building 2 Inspection Results

The interior of Building 2 was inspected prior to RI and demolition activities. Two floor drains were discovered, one in the eastern portion of the building and one in the western portion of the building. A sediment sample collected from the western floor drain had no visual/olfactory impacts and a PID reading of 3.8 ppm. Analytical results are discussed in Section 4.7. No sediment was discovered in the eastern floor drain. Additionally, prior to demolition activities, the materials noted during the Phase I ESA including hydraulic oil, muriatic acid, clean strip, insulite, latex bending mixture, and roof cement were removed by the property owner for future off-site reuse.

4.2 Sewer and Drain Investigation Results

Roux conducted a sewer and drain investigation (Figure 9) on the sanitary sewer line that runs north-south between two sanitary sewer manholes observed on the property, one located east of the north end of former Building 1 (northern manhole), and one located southeast of former Building 1 (southern manhole). Four-inch diameter PVC piping was observed entering the northern manhole from the east and discharging to the south. The manhole and PVC piping were partially filled with sediment. The sediment did not show any visual/olfactory signs of impact from cVOCs and had a PID reading of 0 ppm. Four-inch

piping was observed entering the southern manhole from the north and discharging to the south. No sediment, visual/olfactory impacts, or PID readings were observed within the southern manhole or piping.

4.3 Surface Soil/Fill Results

A total of 20 surface soil/fill samples were collected during the RI. Sample locations are shown on Figure 3. Surface soil results are summarized in Table 4 and Figures 4A and 4B.

4.3.1 Volatile Organic Compounds

Surface soil/fill was not analyzed for VOCs as no PID readings above background (0.0 ppm) were identified.

4.3.2 Semi-Volatile Organic Compounds

SVOCs were detected at concentrations above method detection limits (MDLs) at 19 of the 20 surface soil locations. No SVOCs were detected above their respective Unrestricted SCOs (USCOs).

4.3.3 Metals

Metals were detected at concentrations above MDLs at all surface soil locations. A minimum of at least one of the following metals were detected above their respective USCOs at surface soil locations SS-1, SS-2, SS-3, SS-4, SS-5, SS-6, SS-8, SS-9, SS-10, SS-11, SS-12, SS-13, SS-14, SS-15, SS-19, and SS-20; chromium, copper, lead, nickel, and zinc. Metals did not exceed Restricted-Residential SCOs (RRSCOs) at any surface soil location.

4.3.4 Polychlorinated Biphenyls

PCBs were not detected at concentrations above MDLs at any surface soil location.

4.3.5 Pesticides and Herbicides

4,4'-DDD slightly exceeded its USCO (0.0033 mg/kg) at SS-2 (0.0034 mg/kg). 4,4'-DDE exceeded its USCO (0.0033 mg/kg) at SS-9 (0.0054 mg/kg), SS-14 (0.0041 mg/kg), and SS-15 (0.0036 mg/kg). 4,4'-DDT slightly exceeded its USCO (0.0033 mg/kg) at SS-9 (0.0036 mg/kg), SS-14 (0.011 mg/kg), and SS-15 (0.005 mg/kg). Pesticides did not exceed RRSCOs at any surface soil location. Herbicides were not detected at concentrations above MDLs.

4.3.6 Emerging Contaminants

SCOs have recently been developed for Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS). PFOS exceeded its USCO (0.88 mg/kg) at SS-1 (2.4 ug/kg), SS-2 (2.3 ug/kg), SS-3 (1.5 ug/kg), and SS-15 (1.4 ug/kg). 1,4-dioxane was not detected at concentrations above MDLs at any location.

4.3.7 Surface Soil/Fill Summary

Metals (i.e., chromium, copper, lead, nickel, and zinc), pesticides (i.e., 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT), and PFOS were detected above USCOs but below RRSCOs in surface soil samples.

SVOCs were not detected at concentrations exceeding USCOs and PCBs, herbicides and 1,4-dioxane were not detected at concentrations above MDLs in surface soil samples.

4.4 Subsurface Soil/Fill Investigation

A total of 27 subsurface soil/fill samples were collected during the RI. Sample locations are shown on Figure 3. Subsurface soil results are summarized in Table 5 and Table 6 and Figures 4A and 4B. Boring and test pit logs are provided in Appendix B.

4.4.1 Qualitative Soil/Fill Screening

Fill material identified in the western, developed portion of the Site, was observed between 1 and 7 fbgs at MW-8D, located directly east of Building 1, and between ground surface and 2 fbgs under the northern portion of Building 1. Fill material in this area generally consists of black/brown sand and gravel with silt and man-made materials (brick,

cinders, ash and concrete). Fill material was observed at one location in the eastern, undeveloped portion of the Site (TP-30) from ground surface to 9.5 fbgs consisting of brown gravel with sand, silt, and man-made materials (concrete, brick, and asphalt).

Elevated PID readings were identified at Phase II locations SB-7 and MW-4D and a sweet odor was identified at SB-7 from 4-6 ft. PID readings were highest at SB-7 at 4-6 ft (2,200 ppm) and decreased to 150 ppm at the deeper 6 to 7 ft interval, which is just above bedrock. PID readings were highest at MW-4D at 5 ft (17 ppm) and decreased to 0 ppm at 7 ft, just above bedrock. Odors and elevated PID readings were not detected at any RI sample locations. RI soil boring and test pit logs are provided in Appendix B.

4.4.2 Subsurface Soil/Fill Results

4.4.2.1 Volatile Organic Compounds

VOCs were detected above method detection limits (MDLs) at the six Phase II locations and 16 of the 27 RI locations. Cis-1,2-DCE, methylene chloride, PCE, and/or TCE were detected above their respective USCOs at the six Phase II locations, including SB-1 (10-12 ft), SB-3 (4-4.5 ft), SB-7 (4-6 ft), SB-7 (6-8 ft), SB-8 (4-6 ft), and SB-11 (2-4 ft). TCE was detected exceeding its RRSCO (19 mg/kg) at SB-3 (4-4.5 ft, 44 mg/kg) and SB-7 (4-6 ft, 120 mg/kg). All samples collected during the Phase II were sampled from the western portion of the Site. No VOCs were detected above their respective USCOs at any RI sample locations, including the more recent soil sampling at PZ-9. As previously discussed, PCE in soil at SB-7 (4-6 ft) was identified at a concentration (2.6 mg/L) exceeding its respective characteristic hazardous waste threshold (0.7 mg/L). Phase II and RI soil results are summarized on Table 5, TCLP results are summarized on Table 6.

4.4.2.2 Semi-Volatile Organic Compounds

SVOCs were not detected above MDLs at the one location analyzed during the Phase II (SB-4). SVOCs were detected above MDLs at 4 of the 21 RI sample locations. No SVOCs were detected above their respective USCOs. Results are summarized on Table 5.

4.4.2.3 Metals

Metals were detected above MDLs at all 21 RI sample locations. A minimum of at least one of the following metals were detected above their respective USCOs at subsurface samples MW-8/8D (4-5 ft), MW-9 (6-7 ft), MW-10 (4-5 ft), MW-11 (4-5 ft), MW-12 (6-7 ft), MW-13 (4-5 ft), MW-14 (2-3 ft), TP-1 (1.5-3 ft), TP-6 (3-4 ft), TP-8 (2-3 ft), TP-12 (0.5-2 ft), TP-17 (0.5-2 ft), TP-19 (1-3 ft), TP-22 (0-2 ft), TP-23 (1-3 ft), TP-28 (4-5 ft), and TP-30 (4-6 ft); arsenic, chromium, copper, lead, manganese, nickel, selenium, and zinc. In the eastern portion of the Site, arsenic slightly exceeded its Residential SCO (RSCO) (16 mg/kg) at MW-12 (16.1 mg/kg) and manganese, a naturally occurring mineral, exceeded its RSCO (2,000 mg/kg) at TP-17 (3,670 mg/kg) and TP-30 (2,640 mg/kg). All other metal results were below RSCOs. Results are summarized on Table 5.

4.4.2.4 Polychlorinated Biphenyls

Total PCBs was detected slightly exceeding its USCO (0.1 mg/kg) at MW-9 (6-7 ft, 0.11 mg/kg) and TP-30 (4-6 ft, 0.36 mg/kg). No other PCBs were detected above MDLs. Results are summarized on Table 5.

4.4.2.5 Pesticides and Herbicides

Pesticides were detected above MDLs at 18 of the 21 sample locations. Pesticide 4,4'-DDT exceeded its USCO (0.0033 mg/kg) at TP-30 (4-6 ft, 0.0098 mg/kg). Herbicides were not detected above MDLs at any location. Results are summarized on Table 5.

4.4.2.6 Emerging Contaminants

PFAS were detected at 9 of the 14 sample locations. PFOA and PFOS did not exceed their respective USCOs at any location. 1,4-dioxane was not detected at concentrations above MDLs at any location. Results are summarized on Table 5.

4.4.2.7 Subsurface Soil/Fill Summary

Fill material, including brick, cinders, ash, and concrete, was identified between 0 to 7 fbgs in the western, developed portion of the Site. In addition, intermingled slag was noted in fill units in the former Building 1 foundation area and a proximate boring (MW-1D). Fill

material, including concrete, brick, and asphalt was identified at one location (TP-30) in the eastern, undeveloped portion of the Site to 9.5 fbgs.

Elevated PID readings were identified at Phase II locations SB-7 (up to 2,200 ppm) and MW-4D (up to 17 ppm) and a sweet odor was identified at SB-7 from 4-6 ft. Elevated PID readings and odors were not identified at any RI location.

cVOCs including cis-1,2-DCE, methylene chloride, PCE, and/or TCE were detected above USCOs at the six Phase II sample locations. PCE exceeded its RRSCO at SB-3 (4-4.5 ft) and SB-7 (4-6 ft). TCLP PCE in soil at SB-7 (4-6 ft) was identified at a concentration exceeding its respective characteristic hazardous waste threshold.

Pesticides, total PCBs, and metals including chromium, copper, lead, nickel, selenium, and zinc were detected above USCOs in subsurface soil samples but were not detected exceeding RSCOs at any location. Manganese was detected exceeded its RSCO at TP-17 (0.5-2 ft) and TP-30 (4-6 ft) in the eastern portion of the Site but did not exceed its CSCO at any location. Arsenic was detected slightly exceeding its RSCO at MW-12 in the eastern portion of the Site. However, arsenic is not considered a contaminant of concern in soil due to its minimal exceedance and the depth at which it was detected (6-7 fbgs).

VOCs, SVOCs, and PFAS were not detected exceeding USCOs and herbicides and 1,4-dioxane were not detected above MDLs in RI subsurface soil samples.

4.5 Groundwater Investigation

Roux personnel provided oversight for the installation of seven overburden groundwater monitoring wells, identified as MW-8 through MW-14, one bedrock well, identified as MW-8D, and four piezometers, identified as PZ-6 through PZ-9. The new piezometers and monitoring wells and existing overburden well (MW-1), bedrock wells (MW-1D, MW-2D, and MW-4D), and piezometers (PZ-2 through PZ-5) were sampled, and water level measurements were collected to investigate on-Site groundwater quality and flow. Note that no sample could be collected from monitoring wells MW-10, MW-11, or MW-14 as all three wells are dry and do not produce water. As previously discussed, an additional round of groundwater samples was collected from overburden monitoring wells/piezometers on the western portion of the Site in January 2024. Table 7 presents a comparison of the detected groundwater parameters to respective GWQS/GV. Groundwater samples were collected in accordance with the work plan and analyzed in

accordance with Table 1. Figures 5A and 5B present the historic and RI groundwater analytical results. Laboratory analytical data packages are provided in Appendix D.

4.5.1 Volatile Organic Compounds

VOCs were detected above MDLs at 13 of the 17 sample locations, including 9 of the 13 overburden monitoring well/piezometer locations and all four bedrock monitoring well locations.

Regarding overburden groundwater sampling (results shown are from the most recent round of sampling available), Cis-1,2-DCE was detected above its GWQS (5 ug/L) at PZ-3 (2,100 ug/L), PZ-4 (330 ug/L), and PZ-5 (6.4 ug/L), and PZ-6 (9.1 ug/L). PCE was detected above its GWQS (5 ug/L) at PZ-3 (34,000 ug/L), PZ-4 (21 ug/L), and PZ-6 (17 ug/L). Trans-1,2-Dichloroethene (trans1,2-DCE) was detected above its GWQS (5 ug/L) at PZ-4 (11 ug/L). TCE was detected above its GWQS (5 ug/L) at PZ-3 (2,000 ug/L), PZ-4 (100 ug/L), and PZ-6 (11 ug/L). VC was detected above its GWQS (2 ug/L) at PZ-4 (62 ug/L). Regarding PZ-9, TCE was the only VOC detected in groundwater above its laboratory detection limit and the concentration identified is significantly below its GWQS. During the Phase II investigations, elevated concentrations of cis-1,2-DCE, PCE, trans-1,2-DCE, TCE, and/or VC were observed in the overburden at PZ-2, PZ-3, PZ-4, and PZ-5. Therefore, VOCs observed in the overburden during the RI are generally consistent with those observed during the Phase II.

Regarding bedrock groundwater, cis-1,2-DCE was detected slightly above its GWQS (5 ug/L) at MW-2D (5.6 ug/L) and VC was detected above its GWQS (2 ug/L) at MW-2D (41 ug/L) and MW-4D (2.3 ug/L). During the Phase II investigations, elevated VC was observed in the bedrock at MW-2D, consistent with the RI.

4.5.2 Semi-volatile Organic Compounds

SVOCs were detected above MDLs at 3 of the 8 sample locations. SVOCs were not detected above GWQS at any location.

4.5.3 Metals

Metals were detected above MDLs at all 7 sample locations. Metals detected at concentrations above GWQS were limited to naturally occurring minerals. Specifically, iron exceeded its GWQS (300 ug/L) MW-8 (470 ug/L), MW-8D (4,200 ug/L), MW-9 (1,500 ug/L), and MW-13 (420 ug/L), magnesium exceeded its GWQS (35,000 ug/L) at MW-1 (47,800 ug/L), MW-1D (40,000 ug/L), MW-8 (61,500 ug/L), MW-8D (48,300 ug/L), MW-9 (48,500 ug/L), MW-12 (57,700 ug/L), and MW-13 (35,200 ug/L), manganese exceeded its GWQS (300 ug/L) at MW-9 (470 ug/L), and sodium exceeded its GWQS (20,000 ug/L) at MW-1 (69,700 ug/L), MW-1D (183,000 ug/L), MW-8 (145,000 ug/L), MW-8D (160,000 ug/L), and MW-12 (33,700 ug/L). No other metals were detected above GWQS.

4.5.4 Polychlorinated Biphenyls

PCBs were not detected above MDLs at any sample location.

4.5.5 Pesticides and Herbicides

Pesticides were detected above MDLs at 4 of the 7 sample locations; however, no pesticides were detected above GWQS. No herbicides were detected above MDLs.

4.5.6 Emergent Contaminants

Emergent contaminant sampling consisted of groundwater analysis for 1,4-dioxane (via EPA Method 8270 Selective Ion Monitoring (SIM)) and for PFAS (via EPA Method 537). 1,4-dioxane was not detected above its MDL at any sample locations. PFAS were detected above MDLs at 6 of the 7 sample locations. PFOA and PFOS were not detected above their respective NYDEC action levels. Results are summarized in Table 7.

4.5.7 Groundwater Summary

VOCs including cis-1,2-DCE, PCE, trans1,2-DCE, TCE, and/or VC were detected in overburden groundwater at concentrations significantly above their respective GWQS at PZ-3 and PZ-4, with the highest concentration of PCE observed at PZ-3 (34,000 ug/L). Lower-level concentrations of PCE and cis-1,2-DCE were previously detected at PZ-2 and PZ-5. These four piezometers are all located in the western, previously developed portion of

the Site, directly east of former Building 1, and proximate to the former dry cleaner. No VOCs were detected above GWQS in groundwater wells located in the eastern portion of the Site.

Regarding bedrock groundwater, low level VOCs at concentrations slightly above GWQS were identified at MW-2D and MW-4D on the western portion of the Site. Specifically, cis-1,2-DCE slightly exceeded its GWQS at MW-2D and VC slightly exceeded its GWQS at MW-2D and MW-4D. However, as VOC concentrations are generally significantly lower in the bedrock than the overburden, and groundwater monitoring suggests little interaction between the overburden and bedrock aquifers, impacts to bedrock groundwater are considered minimal.

Metals detected at concentrations above GWQS in overburden and bedrock groundwater were limited to naturally occurring minerals including iron, magnesium, manganese, and sodium. No other metals were detected above GWQSs.

SVOCs, pesticides, and PFAS were not detected above their GWQS/NYSDEC action levels and PCBs, herbicides, and 1,4-dioxane were not detected above MDLs.

4.6 Soil Vapor Investigation

Multiple VOCs were detected in soil vapor samples, including acetone, benzene, carbon disulfide, chloromethane, dichlorodifluoromethane, ethylbenzene, methyl ethyl ketone, methylene chloride, toluene, trichloroethene, and xylenes (see Table 8). Acetone and methyl ethyl ketone were identified at all four soil vapor sample locations. In addition, acetone was identified in the outdoor ambient air sample. The highest petroleum and chlorinated VOC concentrations were identified within the former Building 1 footprint at SV-1, however the concentrations identified are considered low-level. Due to the elevated concentrations of cVOCs detected in soil and groundwater, a soil vapor intrusion (SVI) assessment will be completed for any future buildings constructed at the Site.

4.7 Surface Water and Sediment Investigation

Table 9 summarizes the sediment sample results for the two samples collected along the unnamed intermittent creek that runs through the eastern portion of the Site (SED-1 and SED-2). The 2014 NYSDEC Division of Fish, Wildlife and Marine Resources Screening and

Assessment of Contaminated Soil (Ref. 11) was used to calculate site-specific bulk sediment guidance values (SGVs) for VOCs and SVOCs. For inorganic compounds, sediment concentrations were compared to the Lowest Effect Level (LEL) and Severe Effect Level (SEL) concentrations presented on Table 5 in the 2014 NYSDEC guidance document. According to this guidance, if a total metal concentration in a sediment sample is less than the LEL (Class A), the effects of the metal in the sediment are considered acceptable. If the concentration is greater than the LEL but less than the SEL concentration (Class B), the sediment is considered to be contaminated, with moderate impacts to benthic life. If the concentration is greater than the SEL (Class C), the sediment is contaminated and significant harm to benthic aquatic life is anticipated.

One VOC, acetone, was detected at an estimated concentration slightly exceeding its SGV at SED-2 (downstream location). Polycyclic aromatic hydrocarbons (PAHs) including benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, and indeno(1,2,3-cd)pyrene were detected at concentrations exceeding their respective SGVs in both SED-1 (upstream) and SED- 2 (downstream).

Nickel was detected above its LEL but below its Class C SEL at SED-1 (41.3 mg/kg). All other metals were detected below their respective LELs at SED-1. Several parameters were detected above LELs and/or SELs at the downstream location, SED-2, including arsenic (41.2 mg/kg, above Class C), chromium (43.2 mg/kg, Class B), copper (80.6 mg/kg, Class B), lead (57.1 mg/kg, Class B), nickel (94.8 mg/kg, Class C), and zinc (181 mg/kg, Class B). These results classify the sediment at the upstream location to be moderately contaminated and the sediment at the downstream location to be moderately contaminated due to chromium, copper, lead, and zinc, and at high risk due to arsenic and nickel. However, as this location is proximate to Southwestern Boulevard, and elevated concentrations of arsenic and nickel were not observed at nearby surface or subsurface soil locations, these de minimis exceedances are assumed to be the result of typical urban runoff from Southwestern Boulevard.

Table 10 compares the results of the two surface water samples collected at the same locations as SED-1 and SED-2 (SW-1 and SW-2, respectively) to the NYSDEC TOGS 1.1.1 Class C Surface Water Quality Standards (SWQS). Low level concentrations of VOCs and metals were identified below SWQS. SVOCs, pesticides, herbicides, and PCBs were not detected above MDLs.

Table 9 also summarizes the sediment sample results from sediment collected from the western Building 2 floor drain (SED-3). Benzo(b)fluorene was detected exceeding SGVs at SED-3. In addition, lead (42.2 mg/kg), nickel (31.5 mg/kg) and zinc (159 mg/kg) were identified at SED-3 at concentrations above their respective LELs but below their respective SELs, classifying the sediment within the floor drain as moderately contaminated. VOCs, pesticides, herbicides, and PCBs were not detected above MDLs at SED-3.

4.8 RI Community Air Monitoring Plan (CAMP) Results

Community air monitoring was performed during intrusive remedial activities on January 27 through February 1, 2021, April 5, 2021, June 14, 2021, and September 13 through September 15, 2021. Intrusive activities completed during this time consisted of the advancement of soil borings and test pit excavations. The results conformed to the Community Air Monitoring perimeter particulate requirement (<150 ug/m3) and the organic vapor requirement (<5 ppm) for the duration of intrusive RI activities. On April 5, 2021 there was equipment failure as the PID did not record and the dusttrak shut off early due to instrument malfunction. This CAMP station was not used again on the Site. CAMP monitoring was not completed during RI activities completed January 27, 2021 through February 1, 2021 or June 14, 2021 due to rainy conditions. CAMP data is included in Appendix E.

4.9 Data Usability Summary

In accordance with the RI Work Plan, the laboratory analytical data from this investigation was assessed and, as required, submitted for independent review. Data Validation Services located in North Creek, New York performed the data usability summary assessment, which involved a review of the summary form information and sample raw data, and a limited review of associated QC raw data. Specifically, the following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries

- Matrix Spike Recoveries/Duplicate Recoveries
- Field Duplicate Correlation
- Preparation/Calibration Blanks
- Control Spike/Laboratory Control Samples
- Instrumental IDLs
- Calibration/CRI/CRA Standards
- ICP Interference Check Standards
- ICP Serial Dilution Correlations
- Sample Results Verification

The Data Usability Summary Report (DUSR) was conducted using guidance from the USEPA Region 2 validation Standard Operating Procedures, the USEPA National Functional Guidelines for Data Review, as well as professional judgment.

In summary, results are usable either as reported or with minor qualification. Additional qualifications of the data have been incorporated into the summary data tables. Appendix F includes the DUSR.

4.10 Constituents of Concern (COCs)

Based on the findings of the RI and previous investigations, and the planned redevelopment of the Site, the COCs are presented below:

Soil/Fill: cVOCs (PCE)

Groundwater: cVOCs (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, methylene chloride, VC)

Soil Vapor: cVOCs (TCE, methylene chloride)

5.0 FATE AND TRANSPORT OF COCS

The findings of the RI were used to evaluate the fate and transport of COCs in Site media. The mechanisms by which the COCs can migrate to other areas or media are briefly outlined below.

5.1 Fugitive Dust Generation

Volatile and non-volatile chemicals present in soil can be released to ambient air as a result of fugitive dust generation. Impacted fill material is present on-Site (predominantly in western portion of the Site) and, as such, fugitive dust generation during intrusive activities related to remediation and redevelopment is considered a relevant potential short-term migration pathway.

Particulate monitoring in accordance with the approved CAMP will be completed during intrusive activities and, if required, dust mitigation measures will be employed during future remediation and redevelopment.

5.2 Volatilization

Volatile chemicals present in sub-slab vapor, soil/fill, and groundwater may be released to ambient or indoor air through volatilization either from or through the soil/fill underlying building structures. Volatile chemicals typically have a low organic-carbon partition coefficient (K_{oc}), low molecular weight, and a high Henry's Law constant.

In relation to the Site, VOCs, specifically cVOCs, were detected at concentrations above RSCOs in subsurface soil on the western portion of the Site. Groundwater samples yielded concentrations of cVOCs above GWQS. Sub-slab vapor results from samples collected within the footprint of and proximate to former Building 1 indicated relatively low concentrations of VOCs. Accordingly, volatilization from subsurface VOC-impacted media is considered a relevant migration pathway on the western portion of the Site.

5.3 Surface Water Runoff

Pre-remedial conditions at the Site have potential for surface runoff, due to the presence of hardscape on the western portion and the moderate topographic relief in the eastern portion. The Site has well-drained soil/fill and is covered primarily with green space.

Under the reasonably anticipated future commercial use scenario, the western portion of the Site will be used for commercial purposes, primarily covered by hardscape (asphalt, buildings, etc.) and non-developed areas of the western portion will be covered with a minimum of one foot of vegetated clean soil, which will mitigate transport of subsurface (i.e., covered) soil/fill via storm water runoff. The eastern portion of the Site has not been developed and will likely be utilized for residential or restricted-residential purposes; analytical samples indicate that surface soil meets RSCOs and is therefore acceptable to remain. This area will be revegetated as needed to prevent stormwater erosion. Although storm water runoff during excavation activities is possible during the future use scenario, erosion controls are typical construction practice and would be implemented in strict accordance with an Erosion Control Plan for remedial activities. Therefore, surface water runoff is not a relevant pathway.

5.4 Leaching

Leaching refers to chemicals present in soil/fill migrating downward to groundwater because of infiltration of precipitation.

Based on the findings of the RI and historic Phase II activities, certain cVOCs and metals were detected above RSCOs in the fill intervals, and elevated cVOCs were detected above GWQS in the groundwater. The detected metals tend to adsorb strongly to soil, sediments, and particulate matter and are not expected to leach under natural conditions (i.e., neutral pH). This is supported by the differential detections of analytes in the soil and groundwater analytical results. Therefore, only leaching of cVOCs in the western portion of the Site is considered a relevant contamination pathway.

5.5 Groundwater Transport

As illustrated by Figure 6A and 6B, overburden and bedrock groundwater underlying the Site primarily migrates in a northwestern direction. The results of the groundwater samples collected as part of the RI indicated the presence of cVOCs exceeding GWQS in overburden groundwater monitoring locations including PZ-2, PZ-3, PZ-4, and PZ-5. Naturally occurring metals only were identified exceeding GWQSs at overburden locations. Therefore, groundwater transport of cVOCs would be considered a relevant migration

pathway in the overburden in the western portion of the Site. It is noteworthy that on-Site downgradient monitoring wells are not impacted with cVOCs.

Slightly elevated concentrations of cVOCs were also detected in bedrock groundwater. However, fewer cVOC parameters were detected in the bedrock groundwater in comparison to overburden groundwater. cVOCs in bedrock groundwater were also detected at relatively lower concentrations compared to overburden groundwater. Therefore, groundwater transport of impacted groundwater would not be considered a relevant migration pathway in bedrock groundwater.

5.6 Exposure Pathways

Based on the fate and transport analysis above, the pathways through which Site contaminants could potentially migrate to other areas or media are fugitive dust, volatilization, leaching, and groundwater transport. However, given the NYSDEC/NYSDOH requirements for dust monitoring and controls during intrusive activities at remedial program construction sites, it is unlikely that site-related contaminants would reach off-site receptors at significant exposure point concentrations. Remedial activities will be completed to mitigate potential exposure via volatilization, leaching, and groundwater transport.

6.0 QUALITATIVE EXPOSURE ASSESSMENT

6.1 Human Health Exposure Assessment

A qualitative exposure assessment consists of characterizing the exposure setting (including the physical environment and potentially exposed human populations), identifying exposure pathways, and evaluating contaminant fate and transport.

An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has the following five elements:

- Receptor population
- Contaminant source
- Contaminant release and transport mechanism
- Point of exposure
- Route of exposure

An exposure pathway is complete when all five elements of an exposure pathway are documented; a potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway is not documented but could reasonably occur. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway does not exist in the present and will not exist in the future.

6.1.1 Receptor Population

The receptor population includes the people who are or may be exposed to contaminants at a point of exposure. The identification of potential human receptors is based on the characteristics of the Site, the surrounding land uses, and the probable future land uses. The Site is presently vacant. and covered by asphalt, concrete, or vegetation. Under current Site use conditions, receptors would include site workers and visitors.

The reasonably anticipated future use of the Site is for commercial (western portion) and residential or restricted-residential (eastern portion), consistent with surrounding property use and Site zoning. Exposed receptors under the commercial future use scenario may be comprised of indoor workers, outdoor workers (e.g., groundskeepers or maintenance staff), and construction workers who may be employed at or perform work on the property.

Site visitors/customers may also be considered receptors; however, their exposure would be similar to that of the indoor worker but at a lesser frequency and duration. Therefore, consideration of the indoor worker is conservatively protective of the site visitor. Exposed receptors under the residential or restricted-residential future use scenario may include the same receptors as the commercial use scenario, with the addition of indoor occupants. However, VOCs are not present in soil or groundwater in the western portion of the Site.

6.1.2 Contaminant Sources

The source of contamination is defined as either the source of contaminant release to the environment (such as a waste disposal area or point of discharge) or the impacted environmental medium (soil, air, biota, water) at the point of exposure. Section 4.0 discussed the COCs present in Site media at elevated concentrations. Limited areas containing cVOCs were observed at the Site. It is likely that the source of the cVOCs was a former dry cleaner in former Building 1.

6.1.3 Contaminant Release and Transport Mechanisms

Contaminant release and transport mechanisms carry contaminants from the source to points where people may be exposed and are specific to the type of contaminant and site use. Contaminant release and transport mechanisms include:

- Soil vapor migration of cVOCs in the vadose zone.
- cVOCs migration in groundwater. As the groundwater migrates through the soil, it is subjected to a variety of natural processes such as biodegradation, dilution, and sorption to soil or rock particles, among others. As such, the further the contamination moves through the subsurface, lower concentrations are expected.
- Fugitive dust migration from impacted soils during future planned intrusive work/remedial activities.
- Direct contact with impacted soil/fill and groundwater during future planned intrusive work/remedial activities.

6.1.4 Point of Exposure

The point of exposure is a location where actual or potential human contact with a contaminated medium may occur. There is potential for construction workers to be exposed

to contaminated soil vapor, soil and/or groundwater during planned intrusive work, remedial activities, or post-redevelopment maintenance activities. There is also a potential for indoor workers in any future site buildings to be exposed to contaminated soil vapor. For both the current and future use scenarios, groundwater is not considered a relevant mechanism for exposure due to the availability of a local municipal potable water source; and requirement for an Environmental Easement (at least in the western portion of the Site) that will restrict the use of Site groundwater. Given planned remedial actions at the Site, the point of exposure in the future scenario will be reduced and/or eliminated.

6.1.5 Route of Exposure

The route of exposure is the manner in which a contaminant actually enters or contacts the body (i.e., ingestion, inhalation, dermal absorption). Based on the types of receptors and points of exposure identified above, potential routes of exposure are listed below:

Current Use Scenario

- Environmental, Construction, and/or Outdoor Workers (short-term) – skin contact, inhalation, and incidental ingestion.

Future Use Scenario

- Indoor Occupant (western portion only) – inhalation
- Indoor Worker/Visitor/Vendor - inhalation
- Construction and Outdoor Workers (short-term) – skin contact, inhalation, and incidental ingestion.

6.1.6 Exposure Assessment Summary

Based on the above assessment, the potential exposure pathways for the current and future use conditions are listed below.

Current Use Scenario

- Construction Worker/Environmental Personnel – direct contact, incidental ingestion, and inhalation.

Future Use Scenario

- Indoor Occupant (western portion only) – inhalation
- Indoor Worker/Visitor/Vendor – inhalation.
- Construction and Outdoor Worker – direct contact, incidental ingestion and inhalation.

In most instances, these exposures can be readily mitigated through the use of personal protective equipment (PPE); proper soil/fill management during intrusive activities; and engineering controls including a cover system (i.e., placement of asphalt parking areas, a building, and landscape cover) and construction of active sub-slab depressurization (ASD) systems in newly constructed buildings in the western portion of the Site.

6.2 Fish and Wildlife Impact Assessment (FWIA)

The Site was formerly used for various commercial operations including dry cleaning and automotive repair in former Building 1 and concrete/masonry contractor storage and equipment repair/maintenance in former Building 2. Buildings 1 and 2 have been demolished and the Site is currently vacant land and includes asphalt parking/access roads in the western portion of the Site and dense vegetation in the eastern portion of the Site. The Site provides little or no wildlife habitat or food value in the previously developed western portion of the Site but may provide wildlife habitat and/or food value in the undeveloped/wooded eastern portion of the Site.

The Site is slated for redevelopment, likely in a commercial (western portion) and residential or restricted-residential (eastern portion) capacity, which is consistent with zoning and uses of surrounding properties. Buildings, parking areas, and/or maintained vegetative landscaping will substantially limit availability of suitable cover type for reestablishment of biota across the Site. No federally listed or proposed threatened or endangered species are known to exist in the project area. No potential ecological exposure scenario exists. No resources were identified associated with the Site indicating no further work on the Fish and Wildlife Resource Impact Analysis (FWRIA) is required.

6.3 Qualitative Off-Site Exposure Assessment

During the RI, soil borings and test pits were advanced across the Site, including areas proximate to Site property boundaries. These sampling locations were used in conjunction with previously collected data to complete this qualitative off-site exposure assessment and evaluate potential remedial measures to address Site contamination.

As discussed in Section 5.0, contaminants in on-Site soil/fill could potentially migrate off-site as fugitive dust emissions during intrusive activities and groundwater transport. However, given the NYSDEC and NYSDOH requirements for dust monitoring and controls during intrusive activities at remedial program construction sites, it is unlikely that site-related contaminants would reach off-site receptors at significant exposure point concentrations. Once impacted soil/fill areas of concern are remediated, and a Site cover system is installed as an engineering control, potential off-site exposure will be eliminated. Furthermore, on-Site downgradient monitoring wells are not impacted with cVOCs.

The Site and surrounding area are serviced by a municipal drinking water system, mitigating potential exposure to contaminants in groundwater.

7.0 REMEDIAL ALTERNATIVES ANALYSIS EVALUATION

This section provides an analysis of the potential remedial approach(s) by using the Remedy Selection Evaluation Criteria identified in Section 4.2 of Guidance Document DER-10: Technical Guidance for Site Investigation and Remediation. In accordance with DER-10 Section 4.4(d)2, in addition to a "no action" baseline alternative, the following alternatives were developed and assessed based on NYSDEC-defined cleanup tracks as follows:

Track 1, 6 New York Codes, Rules and Regulations (6NYCRR) Part 375-3.8(e)(1) requires site media to meet Part 375 SCOs that will allow the site to be used for any purpose without restrictions on the use of the site (i.e., unrestricted use). The soil cleanup must achieve the unrestricted use criteria at any depth above bedrock. Details and evaluation of the Track 1 alternative are described below.

Track 2, 6NYCRR Part 375-3.8(e)(4) requires site media to meet generic SCOs under a restricted use scenario. For Track 2 remedies, long-term institutional or engineering controls may not be used to achieve SCOs, but short-term controls may be used if SCOs would be achieved in no more than 5 years. Long-term institutional and engineering controls may be implemented for groundwater or soil vapor if they can be realistically implemented and maintained in a reliable and enforceable manner.

Track 4, 6NYCRR Part 375-3.8(e)(4) soil cleanups use site-specific information to identify site-specific SCOs that are protective of public health and the environment under a restricted use scenario. For Track 4 remedies, restrictions can be placed on the use of the property in the form of institutional and engineering controls if they can be realistically implemented and maintained in a reliable and enforceable manner. As set forth in 6 NYCRR Part 375-3.8(e)(4)(iii)(a)(1), the top two (2) foot of all exposed surface soils, not otherwise covered by the components of the development of the site (e.g., buildings, pavement), shall not exceed the restricted use (Commercial Use) SCOs. Areas that exceed these SCOs must be covered by material meeting the requirements of the generic soil cleanup table contained in Part 375-6.7(d) for the applicable anticipated future site uses (i.e., Commercial Use).

7.1 Remedial Action Objectives

The final remedial measures for the Site must satisfy Remedial Action Objectives (RAOs). RAOs are site-specific statements that convey the goals for minimizing or

eliminating substantial risks to public health and the environment. Appropriate RAOs for the Site, per DER-10 generic RAOs include:

7.1.1 Soil/Fill RAOs

RAOs for Public Health Protection

- Prevent ingestion /direct contact with contaminated soil.
- Prevent inhalation exposure to contaminants volatilizing from soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater contamination.

7.1.2 Groundwater RAOs

RAOs for Public Health Protection

- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of groundwater contamination.

7.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the site.

7.2 General Response Actions

General Response Actions (GRAs) are broad classes of actions that are developed to achieve the RAOs and form the foundation for the identification and screening of remedial technologies and alternatives.

7.2.1 Soil/Fill

The GRAs available to address the RAOs for soil/fill include:

- Treatment (e.g., in-situ or ex-situ)

- Engineering Controls (e.g., cover system)
- Institutional Controls (e.g., Environmental Easement, Site Management Plan))

7.2.2 Groundwater

The GRAs available to address the RAOs for groundwater include:

- Source Area Removal
- Monitored Natural Attenuation
- Treatment (e.g., in-situ amendment)
- Institutional Controls (e.g., groundwater use restrictions)

7.2.3 Soil Vapor

The GRAs available to address the RAOs for soil vapor include:

- Engineering controls (e.g., ASD system)
- Institutional controls

7.3 Standards, Criteria, and Guidance

According to DER-10 Section 1.3(b)71, standards, criteria, and guidance (SCGs) means *"standards and criteria that are generally applicable, consistently applied, and officially promulgated, that are either directly applicable or not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with, and with consideration being given to guidance determined, after the exercise of scientific and engineering judgment, to be applicable. This term incorporates both the CERCLA concept of 'applicable or relevant and appropriate requirements' (ARARs) and the USEPA's 'to be considered' (TBCs) category of non-enforceable criteria or guidance. For purposes of this Guidance, 'soil SCGs' means the soil cleanup objectives and supplemental soil cleanup objectives identified in 6NYCRR 375-6.8 and the Commissioner Policy CP-51 on Soil Cleanup Guidance."*

Soil/Fill:

Soil Cleanup Objectives (SCOs) per 6 New York Code Rules and Regulation (6 NYCRR) Part 375 Environmental Remediation Programs, Subparts 375-12 to 375-4 & 375-6, effective December 14, 2006.

Maximum Concentrations of Contaminants for the Toxicity Characteristic per Code of Federal Regulations (CFR) Title 40, Chapter I, Subchapter I, Part 261, Subpart C Characteristics of Hazardous Waste §261.24 Toxicity Characteristics, Table 1.

Groundwater

Class GA Groundwater Quality Standards and Guidance Values (GWQS/GVs) per NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1), June 1998, amended April 2000.

Additional discussions concerning the specific chemical-specific SCGs that may be applicable, relevant, or appropriate to remedy selection for the Site are presented below. In each case, the identified SCGs are generally limited to regulations or technical guidance in lieu of the environmental laws from which they are authorized, as the laws are typically less prescriptive in nature and inherently considered in the regulatory and guidance evaluations. Table 11 summarizes the SCGs by media that may be applicable or relevant and appropriate to the Site.

7.3.1 Chemical-Specific SCGs

Chemical-specific SCGs are usually health- or risk-based concentrations in environmental media (e.g., air, soil, water), or methodologies that when applied to site-specific conditions, result in the establishment of concentrations of a chemical that may be found in, or discharged to, the ambient environment. The determination of potential chemical-specific SCGs for a site is based on the nature and extent of contamination; potential migration pathways and release mechanisms for site contaminants; reasonably anticipated future site use; and likelihood that exposure to site contaminants will occur.

Previous sampling events during historic Phase II and RI activities included the collection and analysis of surface soil/fill, subsurface soil/fill, groundwater, soil vapor, sediment, and surface water samples (see Tables 4 through 10).

As previously indicated, one of the remedial alternatives to be assessed for the Site is a Track 4 commercial cleanup for soil/fill in the western portion of the property and a Track 2 residential cleanup for soil/fill in the eastern portion of the property. This approach requires institutional controls (e.g., groundwater and land use restrictions, Site Management

Plan, and Environmental Easement) and engineering controls (e.g., a soil cover system, ASD system) for the western portion of the property as a component of the final remedy to reduce future potential exposure to impacted soil/fill that remain after remedial activities.

7.4 Evaluation of Alternatives

In addition to achieving RAOs, NYSDEC's Brownfield Cleanup Program calls for remedy evaluation in accordance with DER-10 Technical Guidance for Site Investigation and Remediation. The remedial alternatives are evaluated against the following criteria consistent with 6NYCRR Part 375-1.8(f):

- **Overall Protection of Public Health and the Environment**. This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls.
- **Compliance with Standards, Criteria, and Guidance (SCGs)**. Compliance with SCGs addresses whether a remedy will meet applicable environmental laws, regulations, standards, and guidance.
- **Long-Term Effectiveness and Permanence**. This criterion evaluates the long-term effectiveness of the remedy after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: (i) the magnitude of the remaining risks (i.e., will there be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals), (ii) the adequacy of the engineering and institutional controls intended to limit the risk, (iii) the reliability of these controls, and (iv) the ability of the remedy to continue to meet RAOs in the future.
- **Reduction of Toxicity, Mobility or Volume of Contamination through Treatment**. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of Site contamination. Preference is given to remedies that

permanently and significantly reduce the toxicity, mobility, or volume of the wastes at the Site.

- **Short-Term Impacts and Effectiveness**. Short-term effectiveness is an evaluation of the potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during construction and/or implementation. This includes a discussion of how the identified adverse impacts and health risks to the community or workers at the Site will be controlled, and the effectiveness of the controls. This criterion also includes a discussion of engineering controls that will be used to mitigate short term impacts (i.e., dust control measures), and an estimate of the length of time needed to achieve the remedial objectives.
- **Implementability**. The implementation criterion evaluates the technical and administrative feasibility of implementing the remedy. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.
- **Cost-Effectiveness**. Capital, operation, maintenance, and monitoring costs are estimated for the remedy and presented on a present worth basis.
- **Community Acceptance**. This criterion evaluates the public's comments, concerns, and overall perception of the remedy.
- **Land Use**. In addition to the above criteria, 6NYCRR Part 375-1 specifies that the criterion of Land Use (i.e., the current, intended, and reasonably anticipated future land uses of the Site and its surroundings) be considered in the selection of the remedy.

7.5 Anticipated Future Land Use Evaluation

In developing and screening remedial alternatives, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land be factored into the evaluation.

The regulations identify 16 criteria that must be considered. These criteria and the resultant outcome for the Site are presented below.

1. *Current use and historical and/or recent development patterns:* The western portion of the Site was previously developed with two vacant structures that have since been demolished and an associated parking lot. The remaining area is wooded vacant land. The Site will be redeveloped for commercial use (western portion) and either residential or restricted-residential use (eastern portion). The site is currently zoned B-2 Commercial. **Accordingly, the planned redevelopment is anticipated to be consistent with the historical and/or recent development patterns. However, if residential use is planned in the eastern portion of the Site, such may require a zoning change.**

2. *Applicable zoning laws and maps:* The Site is located in an area of the Town of Orchard Park identified as a moderately developed commercial and residential area. **The anticipated redevelopment of the Site for commercial and residential use will be consistent with Site zoning. However, if residential use is planned in the eastern portion of the Site, such may require a zoning change.**

3. *Brownfield opportunity areas as designated set forth in GML 970-r:* The Brownfield Opportunity Area (BOA) Program provides municipalities and community-based organizations with assistance to complete revitalization plans and implementation strategies for areas or communities affected by the presence of brownfield sites, and site assessments for strategic sites. **The Site is not located within the limits of a BOA.**

4. *Applicable comprehensive community master plans, local waterfront revitalization plans as provided for in EL article 42, or any other applicable land use plan formally adopted by a municipality:* The Site is zoned B-2 Commercial. The future use as commercial is consistent with allowable site uses. **However, if residential use is planned in the eastern portion of the Site, such may require a zoning change.**

5. *Proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural and recreational areas*: Commercial or vacant commercial properties are located to the north, south, east, and west of the Site. **Nearby and adjacent properties are commercial and residential. The proposed/anticipated commercial and residential redevelopment is consistent with local development plans.**

6. *Any written and oral comments submitted by members of the public on the proposed use as part of the activities performed pursuant to the citizen participation plan*: **No comments have been received from the public to date pursuant to the citizen participation plan.**

7. *Environmental justice concerns, which include the extent to which the proposed use may reasonably be expected to cause or increase a disproportionate burden on the community in which the site is located, including low-income minority communities, or to result in a disproportionate concentration of commercial or industrial uses in what has historically been a mixed use or residential community*: Surrounding properties are actively used in a commercial capacity. **Future anticipated use of the Site in a commercial and residential capacity will not pose environmental justice issues.**

8. *Federal or State land use designations:* There are no known federal or state land use designations. The property is designated by the Town of Orchard Park as commercial land use. **Redevelopment for anticipated commercial and residential use will be consistent with local land use.**

9. *Population growth patterns and projections:* Town of Orchard Park, encompassing approximately 38.52 square miles, has a population of 29,686 (2020 estimate - US Census Bureau), an increase of 2.2 percent from the 2010 census. The Site is located within Census Tract 137.02, a mixed-use area in the Town of Orchard Park. **Redevelopment of the currently unoccupied Site in a commercial and residential capacity would provide positive opportunities for growth.**

10. *Accessibility to existing infrastructure:* Access to the Site is from Union Road. The Site has access to all manor public and private utilities, including potable water, sanitary and storm sewers, electric, and natural gas. **Existing infrastructure supports planned reuse**.

11. *Proximity of the site to important cultural resources, including federal or State historic or heritage sites or Native American religious sites*. **Per the New York State Historical Preservation Office, there are no important cultural resources located within 1.0 mile of the subject Site:**

12. *Natural resources, including proximity of the site to important federal, State or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species:* No State or Federal wetlands exist on the Site, nor is the Site located within a rare plant and/or animal habitat. The Site is located within 1.0 mile of several state and federal regulated wetlands. However, adjacent properties are currently used for commercial purposes, and prior use of the Site as commercial has prevented it from being a suitable setting for ecological resources. We note that there

is portion of an unnamed intermittent creek on the eastern portion of the Site; however, such is not designated as a waterbody/waterway or a wetland area. **The absence of a suitable setting for ecological resources on or adjacent to the Site indicates that the remediated Site will not pose an ecological threat.**

13. *Potential vulnerability of groundwater to contamination that might emanate from the site, including proximity to wellhead protection and groundwater recharge areas and other areas identified by the Department and the State's comprehensive groundwater remediation and protection program established set forth in ECL article 15 title 31:* There are no groundwater supply wells present on the Site or noted in the vicinity of the Site. Regionally, groundwater has not been extracted for industrial, commercial, agriculture, or public supply purposes. Potable water service is provided by the local municipal water authority. **The absence of potable wells and wellhead protection along with remediating the Site for use in an anticipated commercial and residential capacity prevents threat to drinking water.**

14. *Proximity to flood plains:* The Erie County Internet Mapping System indicates that Smokes Creek, which has a designated flood zone, is located approximately 0.4-miles to the west. No flood zones are present on the property, and therefore there is a low risk of erosion due to flooding. As previously discussed, a portion of an unnamed intermittent creek on the eastern portion of the Site; however, such is not designated as a flood plain. **As such, remediating the Site for anticipated use in a commercial and residential capacity does not pose a risk to the surface water.**

15. *Geography and geology:* The Site is located within the Lake Erie-Niagara River major drainage basin, which is typified by little topographic relief, except in the immediate vicinity of major drainage ways. According to the USDA Web soil survey, Site soils are characterized as Remsen silty clay loam with 3 to 8 percent slopes (RfB) and Remsen silty clay loam with 0 to 3 percent slopes (RfA). The Remsen silty clay loam is described as a somewhat poorly drained soil derived from calcareous or neutral shale. **The redevelopment plan is consistent with the geography and geology of the Site.**

16. *Current institutional controls applicable to the site:* **No institutional controls are currently present that would affect the proposed redevelopment.**

Based on the above analysis, planned reuse of the Site is consistent with past, current, and contemplated development and zoning on and around the Site, and does not pose additional environmental or human health risk.

7.6 Comparison of Remedial Alternatives

In addition to the evaluation of the alternatives to remediate the Site to the likely end use, NYSDEC regulations and policy call for evaluation of more restrictive end-use scenarios. These include an Unrestricted Use scenario (considered under 6NYCRR Part 375 to be representative of cleanup to pre-disposal conditions), and a scenario less restrictive than the reasonably anticipated future use. Per NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, evaluation of a "no action" alternative is also required to provide a baseline for comparison against other alternatives. The alternatives evaluated below in greater detail include:

- Alternative 1 – No Further Action
- Alternative 2 – Unrestricted Use (Track 1) Cleanup
- Alternative 3 – Commercial Use (Track 4) Cleanup (Western Portion) and Residential Use (Track 2) Cleanup (Eastern Portion)

7.6.1 Alternative 1 - No Further Action

Under this alternative, the Site would remain in its current state, with no remediation or controls in place.

Overall Protection of Public Health and the Environment – This alternative is not protective of human health and the environment, due to the presence of contamination remaining on-site above SCGs; the absence of engineering controls (e.g., cover system, ASD system); and the absence of institutional controls to prevent more restrictive forms of future site use (e.g., unrestricted, residential, and, in the western portion, restricted residential) or the export of Site soils to uncontrolled off-site locations. Accordingly, no further action is not protective of public health and does not satisfy the RAOs.

Compliance with SCGs – Under the current and reasonably anticipated future use scenario (commercial and residential), the contamination detected in on-site soil/fill, groundwater and soil vapor does not comply with applicable SCGs.

Long-Term Effectiveness and Permanence – The no further action alternative involves no remediation, or implementation of engineering or institutional controls, and provides no long-term effectiveness toward achieving the RAOs.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment – The no action alternative does not reduce the toxicity, mobility, or volume of contamination beyond natural degradation/attenuation, and therefore this alternative is not protective of public health and does not satisfy any of the RAOs.

Short-Term Impacts and Effectiveness – The contamination on-site does pose short-term risks to on-site workers and the environment. Adverse impacts and risks to the community, potential workers, or the environment would be attributable to implementation of the no action alternative. Therefore, implementation of the no further action alternative does not satisfy RAOs.

Implementation – No technical or administrative implementation issues are associated with the no further action alternative.

Cost – The capital cost of the no action alternative is $0. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

Community Acceptance – Community acceptance will be evaluated based on comments received from the public in response to a Fact Sheet and other planned Citizen Participation activities.

7.6.2 Alternative 2 - Unrestricted Use (Track 1) Cleanup

Alternative 2 would remediate the Site to Part 375 unrestricted use (Track 1) and would include the following components:

- Excavation and off-site disposal of all soils exceeding USCOs, including disposal of hazardous material identified east of former Building 1.

- Injection of groundwater amendment(s) in the area surrounding PZ-3 and PZ-4 and completion of post-remedial groundwater sampling, as needed.
- Installation of sub-slab depressurization (SSD) system piping and completion of SVI sampling in any new buildings to assess whether operation of an active sub-slab depressurization (ASD) system(s) is needed.

An Unrestricted Use alternative necessitates remediation of all soil/fill where concentrations exceed USCOs. For Unrestricted Use scenario, excavation and off-site disposal of impacted soil/fill is generally regarded as the most applicable remedial measure, because institutional controls cannot be used to supplement the remedy. As such, the Unrestricted Use alternative assumes soil/fill exceeding USCOs would be excavated and disposed at an off-Site commercial solid waste or hazardous waste facility.

Based on the RI, USCO exceedances were detected across the Site up to 12 fbgs with an average depth of 5 fbgs. An average depth of 5 fbgs was used in this evaluation, indicating that approximately 145,000 cubic yards or 230,000 tons of impacted soil/fill would require excavation and off-site disposal; and equivalent backfilling. Confirmatory sampling results and field observations would ultimately determine the excavation extents. Of the 145,000 cubic yards of soil/fill, an approximate 120 cubic yards would need to be disposed as hazardous waste at an approved out of state hazardous waste landfill.

It is assumed that soil vapor and groundwater remediation would be completed through source area removal completed during excavation activities. Future groundwater monitoring would be completed for approximately five years.

Overall Protection of Public Health and the Environment – Excavation and off-site disposal to achieve USCOs and groundwater treatment would be protective of public health under any reuse scenario. However, this alternative would permanently use and displace valuable landfill airspace, causing ancillary environmental issues due to reduced landfill capacity, and would require excavating, transporting, and placing a similar volume of clean soil from an off-site borrow source to backfill the excavation, also contributing to significant detrimental off-site environmental issues.

Compliance with SCGs – The Unrestricted Use alternative would be performed in accordance with all applicable, relevant, and appropriate standards, guidance, and criteria. Imported backfill material would need to meet backfill quality criteria per DER-10. Excavation of soil to achieve USCOs and groundwater treatment would satisfy this criterion.

Long-Term Effectiveness and Permanence – The Unrestricted Use alternative would achieve removal of all residual impacted soil/fill and treat groundwater; therefore, the Unrestricted Use alternative would provide long-term effectiveness and permanence. Therefore, the completed remedial actions are fully protective of public health and the environment and achieve the RAOs for the Site.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment – Through removal of all impacted soil/fill and groundwater treatment, the Unrestricted Use alternative would reduce the toxicity, mobility, and volume of Site contamination permanently and significantly. However, since this alternative transfers Site soil/fill from one environment to another, an overall reduction of toxicity and volume would not occur. Mobility of soluble constituents would be reduced in the commercial and hazardous landfills with liners, cover systems, and leachate collection.

Short-Term Effectiveness – The principal advantage of a large-scale excavation to achieve USCOs is reliability of effectiveness in the long-term. In the short-term, there would be significant increase in exposure of impacted soil/fill to on-site workers and the community under this alternative. Excavation activities would be completed over an approximate 4 to 6-week period with backfilling occurring concurrently during the same time frame. Commercial construction equipment would be used, a health and safety plan would be followed, and community air monitoring would be completed during excavation activities. However, primary disadvantages include increased truck traffic during excavation and backfill; noise; and air emissions, including fugitive dust and odors. This action would result in potential storm water impacts at the borrow source(s) and on-site; diesel fuel consumption on the order of 100,000 gallons (assuming 80 miles round trip to a local landfill; 8 miles per gallon) to transport over 10,000 truckloads of impacted soil/fill (assuming 14 CY per truckload), with several thousands of gallons also consumed by

construction equipment. The USEPA's estimated CO_2 generation rate for diesel engines is approximately 22.2 pounds per gallon of diesel consumed. Accordingly, this alternative would produce over 2,000,000 pounds of greenhouse gas.

Planned remedial activities will be performed in accordance with an approved Remedial Action Work Plan (RAWP), including a Health and Safety Plan (HASP) and CAMP. This alternative represents a significant adverse effect in the short-term; however, the RAOs would be achieved once the soil/fill is removed from the Site, and backfill soils are in place.

Implementation – Significant technical and administrative implementation issues would be encountered in completion of the Unrestricted Use alternative. Technical implementation issues include but are not limited to: shoring/stabilizing excavation sidewalls along sidewalks and streets to prevent sloughing during the excavation; the need for construction, maintenance, and operation of dewatering facilities; groundwater and/or stormwater handling, treatment and/or discharge/disposal; and traffic coordination for trucks entering and exiting the Site.

Administrative implementation issues may include: the need to coordinate and secure disposal contracts with numerous permitted off-site landfills (including an out of state hazardous waste landfill) as a single location may not be able to be relied upon to accept the volume of soil/fill generated; difficulty locating local borrow sources for such a large volume of backfill; and the need for rezoning of the area to allow for Unrestricted Uses (e.g., farming, livestock, single-family residential), which are not consistent with current surrounding land-use or the reasonably anticipated future use the Site.

In addition, post-remedial groundwater monitoring is acceptable for an Unrestricted Site in the event that remediation can be completed within a five-year period. If monitoring results indicate cVOCs remaining above GWQS, the Track 1 Unrestricted Use Cleanup would not be achieved.

Cost – The capital cost of implementing an Unrestricted Use cleanup alternative is estimated at 25,150,000. Table 12 provides a detailed breakdown of these costs.

Community Acceptance – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities.

7.6.3 Alternative 3 – Commercial Use (Track 4) Cleanup (Western Portion) and Residential Use (Track 2) Cleanup (Eastern Portion)

Under Alternative 3, the Site would be remediated to facilitate reasonably anticipated commercial use in the western portion of the Site (1.93 acres) and residential use in the eastern portion of the Site (15.98 acres, see Figure 7). This alternative would include:

Western Portion Only (Commercial Track 4 area)

- In-situ treatment of VOC-impacted soil and groundwater via Air Sparge/Soil Vapor Extraction (AS/SVE). This remedial action is summarized in further detail below:
    - A preliminary layout of the SVE and AS system is provided as Figure 7A. Roux plans to complete a pilot study to assist our engineering analysis with regard to planned well numbers and spacing, depths, and air withdrawal and air injection rates.
    -
    - The AS/SVE system would be operated until field evidence indicates the soil/fill and groundwater are treated (reduction in PID readings, minimal visual/olfactory impacts), assumed to be on the order of one to two years. Once field evidence suggests treatment is complete, post-treatment soil/fill and groundwater samples would be collected for TCL VOCs to verify efficacy and efficiency of the remedial system. Additional soil/fill sampling will be completed for TCLP VOC analysis to confirm that the soil/fill has been treated to characteristically non-hazardous VOC concentrations. SVE operation will continue until these standards are achieved.
- Groundwater sampling to determine the effect of source area treatment and enhancing reducing conditions on groundwater quality.

- Placement of Cover System on the 1.93 western portion of the Site, consisting of hardscape areas (approximately 1.05 acres, existing asphalt and concrete foundations) and a demarcation layer underlying at least one foot of DER-10 acceptable backfill in areas without hardscape (approximately 0.88 acres).
- Installation of SSD system piping and completion of SVI sampling in any new buildings to assess whether operation of an ASD system(s) is needed.
- Implementation of a Site Management Plan (SMP) including an Institutional Control and Engineering Control (IC/EC) Plan, an Operation and Maintenance Plan, an Excavation Work Plan, and a Site Monitoring Plan
- Filing of an Environmental Easement with Erie County.

Eastern Portion Only (Residential Track 2 Area)

- Excavation of soil/fill material in the areas of TP-30, MW-12, and MW-13, and backfilling and compaction of on-site soil/fill and/or clean, imported stone/soil approved by the Department.

Overall Protection of Public Health and the Environment – This alternative meets the NYSDEC requirements for a Track 4/Track 2 cleanup under the BCP regulations and is protective of public health and the environment. The RAOs for the Site would be satisfied through the planned remedial activities, including: excavation of characteristically hazardous soil/fill, soil and groundwater treatment using in-situ AS/SVE, installation of cover system (clean imported soil and impervious materials) over the western portion of the Site; and the use of EC/ICs to prevent potential future exposure and limit the future Site use to residential and commercial.

Compliance with SCGs – The planned remedial activities would need to be performed in accordance with applicable, relevant, and appropriate SCGs. Post-excavation and post treatment samples would be collected to verify conformance with SCOs and hazardous regulatory limits, imported cover material would need to meet backfill criteria per DER-10, and post-treatment samples would need to be collected to verify conformance with GWQS. Cover placement would be performed under the BCP and DER-10. Subgrade intrusive activities would necessitate adherence with the CAMP, in accordance with

Appendices 1A and 1B of DER-10. The Site Management Plan will include: a requirement for installation of SSD piping(s) in any new buildings and completion of SVI sampling, an Operation and Maintenance (O&M) plan to confirm that engineering controls (soil cover system and ASD system(s) if needed) are operating and being maintained in accordance with the SMP; an Excavation Work Plan to address any impacted soil/fill encountered during post-development maintenance activities; and, a Site Monitoring Plan will provide the schedule for groundwater monitoring, inspection of ASD system(s) (if needed), and a Site-wide Inspection program implemented to assure that the engineering and institutional controls placed on the Site have not been altered and remain effective.

The planned remedial activities for this alternative are fully protective of public health and the environment, and achieve RAOs for the Site.

Long-Term Effectiveness and Permanence – Removal, treatment, and disposal of impacted soil/fill would permanently remove hazardous soil/fill from the Site and construction of a soil cover system in the western portion of the Site would prevent direct contact with any remaining soil/fill exceeding CSCOs. Source area removal, enhancement of reducing conditions, in the area of PZ-3 and PZ-4 would permanently reduce concentrations of cVOCs below GWQS. SSD piping installation would provide an effective long-term solution to reducing SVI occurring in any future buildings.

The SMP will include appropriate plans, controls, and measures and an environmental easement to ensure the commercial use remedy in the western portion and the residential use remedy in the eastern portion are protective of human health and the environment. The SMP will be followed by the current Site owner as well as future Site owners. As such, this alternative will provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment – Through the planned remedial measures described above, this criterion will be achieved. Specifically, AOC removal, treatment, and disposal of impacted soil/fill will permanently and significantly reduce the toxicity, mobility, and volume of the soil/fill that could potentially be contacted or produce localized areas of environmental impact at the Site. Source area treatment and enhancement of reducing conditions will permanently and

significantly reduce toxicity, mobility, and volume of impacted groundwater. Accordingly, this alternative satisfies this criterion.

Short-Term Impacts and Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of this Commercial Track 4/ Residential Track 2 alternative are not considered significant and are controllable.

During intrusive remedial activities, typical construction equipment will be utilized. Required air monitoring would be performed to assure conformance with community air monitoring action levels. The excavation will be backfilled once contaminated soil/fill is removed to minimize the time excavations are left open. Planned remedial activities will be performed in accordance with an approved RAWP, including a HASP and CAMP. This alternative achieves the RAOs for the Site.

Implementation – No significant technical or administrative implementability issues are associated with this alternative.

Cost – The capital cost of implementing this Track 4/Track 2 alternative is estimated at 706,000. The annual O&M costs (ASD system operation, groundwater monitoring, and annual reporting) are estimated at $252,000 for a 30-year period. The estimated costs for this alternative assuming 30-years of operation is approximately $958,000. Table 13 presents the capital and O&M cost estimate.

Community Acceptance – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities.

7.7 Recommended Remedial Measure

Based on the alternatives analysis evaluation, *Alternative 3 – Commercial Use (Track 4) Cleanup (Western Portion) and Residential Use (Track 2) Cleanup (Eastern Portion)* is the recommended final remedial approach for the 3077 Union Road Site. This alternative is fully protective of public health and the environment; significantly less disruptive to the

community; consistent with current and future land use; and represents a more cost-effective approach than Alternative 2 while fully satisfying the RAOs. The recommended remedial alternative would involve:

Western Portion Only (Commercial Track 4 Area)

- In-situ treatment of VOC-impacted soil and groundwater via AS/SVE with a pilot study to assist in our engineering analysis.
- Groundwater sampling to determine the effect of source area treatment and enhancing reducing conditions on groundwater quality.
- Placement of Cover System on the 1.77-acre western portion of the Site, consisting of hardscape areas (approximately 1.03 acres, existing asphalt and concrete foundations) and a demarcation layer underlying at least one foot of DER-10 acceptable backfill in areas without hardscape (approximately 0.74 acres).
- Installation of SSD system piping and completion of SVI sampling in any new buildings to assess whether operation of an ASD system(s) is needed.
- Implementation of a Site Management Plan (SMP) including an Institutional Control and Engineering Control (IC/EC) Plan, an Operation and Maintenance Plan, an Excavation Work Plan, and a Site Monitoring Plan
- Filing of an Environmental Easement with Erie County.

Eastern Portion Only (Residential Track 2 Area)

- Excavation of fill material in the areas of TP-30, MW-12, and MW-13 and backfilling and compaction of on-site soil/fill and/or clean, imported stone/soil approved by the Department.

This remedy is fully protective of public health and the environment; is advantageous over other remedies when evaluated against the remedy selection criteria; and fully satisfies the RAOs for the Site. The components and details of the remaining tasks will be more fully described in a RAWP.

Table 14 provides a comparison of the alternatives by media to identify remedial measures that will achieve the RAOs for the Site.

8.0 RI/AAR SUMMARY AND CONCLUSIONS

Based on the data and analyses presented in the preceding sections, we offer the following summary and conclusions:

Soil

Based on the historic and RI subsurface soil/fill findings, VOCs, metals, PCB, pesticides, and PFAS were identified exceeding USCOs in soil/fill across the Site from approximately 0 to between 0.2 ft and 12 ft. Elevated PID readings were detected at SB-7 (up to 2,200 ppm from approximately 4 to 6 fbgs) and MW-4D (up to 17 ppm from approximately 4 to 7 fbgs), both locations are located directly east of Building 1 proximate to the former dry cleaner. Elevated cVOCs (TCE) above RSCOs were detected at two subsurface soil locations east of Building 1 (SB-3 and SB-7). Chromium exceeded its RSCO at TP-30. Arsenic slightly exceeded its RSCO at MW-12, but is considered de minimis due to depth of impact.

Groundwater

SVOCs, PCBs, pesticides, herbicides, 1,4-dioxane, and PFAS were not detected above their respective GWQS. VOCs including cis-1,2-DCE, PCE, trans1,2-DCE, TCE, and VC were detected above their respective GWQS at four overburden wells, PZ-2, PZ-3, PZ-4, and PZ-5 and two bedrock wells, MW-2D and MW-4D. The four piezometers and two bedrock wells are all located in the western, developed portion of the Site, directly east of Building 1, and proximate to the former dry cleaner. cVOC concentrations were observed at significantly higher concentrations in the overburden aquifer compared to the bedrock aquifer.

Soil Vapor

cVOCs were detected in soil vapor samples, including methylene chloride and TCE. SSD piping will be installed in any future buildings constructed at the Site and SVI sampling will be completed to assess whether operation of an ASD system(s) is needed.

Sediment and Surface Water

The sediment collected from the intermittent stream at the upstream location (SED-1) was classified as moderately contaminated due to elevated concentrations of PAHs and nickel. The sediment collected from the downstream location (SED-2) was classified as at high risk due to elevated concentrations of acetone, PAHs, and metals. The sediment collected from the western Building 2 floor (SED-3) was classified as moderately contaminated due to PAHs and metals. Low level concentrations of VOCs and metals were identified below SWQS in surface water samples collected at approximately the same locations as SED-1 (SW-1) and SED-2 (SW-2). Impacts observed at SED-1 and

SED-2 are considered de minimis as they are likely the result of typical urban runoff from Southwestern Boulevard and based on this information, Roux does not recommend further action relative to the sediment samples collected from the Site. .

Selected Remedy

The Track 4 CSCO/Track 2 RSCO remedy is: fully protective of public health and the environment; is advantageous over other remedies when evaluated against the remedy selection criteria; and, fully satisfies the RAOs for the Site. The components and details of the remaining tasks will be more fully described in a RAWP.

9.0 REFERENCES

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TABLES

TABLE 1
SUMMARY OF PHASE II AND RI SAMPLING & ANALYTICAL PROGRAM
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Matrix	Investigation Location [1]	Sample Type	TCL VOCs	TCL SVOCS	TAL Metals	PCBs	Pesticide	Herbicide	1,4-Dioxane	PFAS
Soil/Fill	**Western, Developed Portion**									
	Phase II Samples									
	SB-1 (10-12')	Subsurface	1	-	-	-	-	-	-	-
	SB-3 (4-4.5')		1	-	-	-	-	-	-	-
	SB-4 (2-4')		-	1	-	-	-	-	1	-
	SB-7 (4-6')		1	-	-	-	-	-	-	-
	SB-7(6-8')		1	-	-	-	-	-	-	-
	SB-8 (4-6')		1	-	-	-	-	-	-	-
	SB-11 (2-4')		1	-	-	-	-	-	-	-
	RI Samples									
	SS-1	Surface (0 to 2")	-	1	1	1	1	1	1	1
	SS-2		-	1	1	1	1	1	1	1
	SS-3		-	1	1	1	1	1	1	1
	SS-4		-	1	1	1	1	1	1	1
	SB-17	Subsurface	1	-	-	-	-	-	-	-
	SB-18		1	-	-	-	-	-	-	-
	SB-19		1	-	-	-	-	-	-	-
	SB-20		1	-	-	-	-	-	-	-
	SB-21		1	-	-	-	-	-	-	-
	SB-22		1	-	-	-	-	-	-	-
	SB-23		1	1	1	1	1	1	1	-
	MW-8/8D		1	1	1	1	1	1	1	1
	TP-1		1	1	1	1	1	1	1	1
	Eastern, Undeveloped Portion									
	RI Samples									
	SS-5	Surface (0 to 2")	-	1	1	1	1	1	1	1
	SS-6		-	1	1	1	1	1	1	1
	SS-7		-	1	1	1	1	1	1	1
	SS-8		-	1	1	1	1	1	1	1
	SS-9		-	1	1	1	1	1	1	1
	SS-10		-	1	1	-	-	-	1	-
	SS-11		-	1	1	-	-	-	1	-
	SS-12		-	1	1	1	1	1	1	1
	SS-13		-	1	1	1	1	1	1	1
	SS-14		-	1	1	1	1	1	1	1
	SS-15		-	1	1	1	1	1	1	1
	SS-16		-	1	1	-	-	-	1	-
	SS-17		-	1	1	-	-	-	1	-
	SS-18		-	1	1	1	1	1	1	1
	SS-19		-	1	1	1	1	1	1	1
	SS-20		-	1	1	1	1	1	1	1
	TP-2	Subsurface	-	-	-	-	-	-	-	-
	TP-3		1	1	1	1	1	1	1	1
	TP-4		-	-	-	-	-	-	-	-
	TP-5		-	-	-	-	-	-	-	-
	TP-6		1	1	1	1	1	1	1	1
	TP-7		-	-	-	-	-	-	-	-
	TP-8		1	1	1	1	1	1	1	1
	TP-9		-	-	-	-	-	-	-	-
	TP-10		-	-	-	-	-	-	-	-
	TP-11		-	-	-	-	-	-	-	-
	TP-12		1	1	1	1	1	1	1	1
	TP-13		-	-	-	-	-	-	-	-
	TP-14		-	-	-	-	-	-	-	-
	TP-15		-	-	-	-	-	-	-	-
	TP-16		-	-	-	-	-	-	-	-
	TP-17		1	1	1	1	1	1	1	1
	TP-18		-	-	-	-	-	-	-	-
	TP-19		1	1	1	1	1	1	1	1
	TP-20		-	-	-	-	-	-	-	-
	TP-21		-	-	-	-	-	-	-	-
	TP-22		1	1	1	1	1	1	1	1
	TP-23		1	1	1	1	1	1	1	1
	TP-24		-	-	-	-	-	-	-	-
	TP-25		-	-	-	-	-	-	-	-
	TP-26		-	-	-	-	-	-	-	-
	TP-27		-	-	-	-	-	-	-	-
	TP-28		1	1	1	1	1	1	1	1
	TP-29		-	-	-	-	-	-	-	-
	TP-30		1	1	1	1	1	1	1	1
	TP-31		-	-	-	-	-	-	-	-
	TP-32		1	1	1	1	1	1	1	1
	TP-33		-	-	-	-	-	-	-	-
	TP-34		1	1	1	1	1	1	1	1
	MW-9		1	1	1	1	1	1	1	-
	MW-10		1	1	1	1	1	1	1	-
	MW-11		1	1	1	1	1	1	1	-
	MW-12		1	1	1	1	1	1	1	-
	MW-13		1	1	1	1	1	1	1	-
	MW-14		1	1	1	1	1	1	1	-
QA/QC	Soil	MS [2]	2	2	2	2	2	2	2	2
		MSD	2	2	2	2	2	2	2	2
		Blind Dup	2	2	2	2	2	2	2	2
TOTAL RI SOIL SAMPLES:			**33**	**47**	**47**	**43**	**43**	**43**	**47**	**36**

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BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Matrix	Investigation Location [1]	Sample Type	TCL VOCs	TCL SVOCS	TAL Metals	PCBs	Pesticide	Herbicide	1,4-Dioxane	PFAS
Groundwater[3]	**Western, Developed Portion**									
	Phase II Samples									
	MW-1	Overburdan Groundwater Monitoring Wells	1	-	-	-	-	-	-	-
	PZ-1 (removed)	Overburdan Groundwater Piezometers	1	-	-	-	-	-	-	-
	PZ-2		2	-	-	-	-	-	-	-
	PZ-3		2	-	-	-	-	-	-	-
	PZ-4		2	-	-	-	-	-	-	-
	PZ-5		2	-	-	-	-	-	-	-
	MW-1D	Bedrock Groundwater	1	-	-	-	-	-	-	-
	MW-2D		1	-	-	-	-	-	-	-
	MW-4D		1	-	-	-	-	-	-	-
	RI Samples									
	MW-1	Overburdan Groundwater Monitoring Wells	1	1	1	1	1	1	1	1
	MW-8		1	1	1	1	1	1	1	1
	PZ-2	Overburdan Groundwater Piezometers	1	-	-	-	-	-	-	-
	PZ-3		1	-	-	-	-	-	-	-
	PZ-4		1	-	-	-	-	-	-	-
	PZ-5		1	-	-	-	-	-	-	-
	PZ-6		1	-	-	-	-	-	-	-
	PZ-7		1	-	-	-	-	-	-	-
	PZ-8		1	1	-	-	-	-	-	-
	MW-1D	Bedrock Groundwater	1	1	1	1	1	1	1	1
	MW-2D		1	-	-	-	-	-	-	-
	MW-4D		1	-	-	-	-	-	-	-
	MW-8D		1	1	1	1	1	1	1	1
	Eastern, Undeveloped Portion									
	RI Samples									
	MW-9	Overburdan Groundwater Monitoring Wells	1	1	1	1	1	1	1	1
	MW-10		-	-	-	-	-	-	-	-
	MW-11		-	-	-	-	-	-	-	-
	MW-12		1	1	1	1	1	1	1	1
	MW-13		1	1	1	1	1	1	1	1
	MW-14		-	-	-	-	-	-	-	-
QA/QC	Groundwater	MS	1	1	1	1	1	1	1	1
		MSD	1	1	1	1	1	1	1	1
		Duplicate	1	1	1	1	1	1	1	1
		Trip Blank [4]	1	-	-	-	-	-	-	-
		Field Blank	1	-	-	-	-	-	--	1
	Submersible Pump	Equipment Blank	1	1	1	1	1	1	1	1
TOTAL RI GROUNDWATER SAMPLES:			**22**	**12**	**11**	**11**	**11**	**11**	**11**	**12**
Sediment	**Western, Developed Portion**									
	Proposed Samples									
	SED-3	Sediment	1	1	1	1	1	1	-	-
	Eastern, Undeveloped Portion									
	Proposed Samples									
	SED-1	Sediment	1	1	1	1	1	1	-	-
	SED-2		1	1	1	1	1	1	-	-
QA/QC	Sediment	MS	1	1	1	1	1	1	-	-
		MSD	1	1	1	1	1	1	-	-
		Duplicate	1	1	1	1	1	1	-	-
TOTAL RI SEDIMENT SAMPLES:			**6**	**6**	**6**	**6**	**6**	**6**	**0**	**0**
Surface Water	**Eastern, Undeveloped Portion**									
	Proposed Samples									
	SW-1	Surface Water	1	1	1	1	1	1	-	-
	SW-2		1	1	1	1	1	1	-	-
QA/QC	Surface Water	MS	1	1	1	1	1	1	-	-
		MSD	1	1	1	1	1	1	-	-
		Duplicate	1	1	1	1	1	1	-	-
TOTAL RI SURFACE WATER SAMPLES:			**5**	**5**	**5**	**5**	**5**	**5**	**0**	**0**
Soil Vapor (TO-15 Method)	**Western, Developed Portion**									
	Proposed Samples									
	SV-1	Soil Vapor	1	-	-	-	-	-	-	-
	SV-2		1	-	-	-	-	-	-	-
	SV-3		1	-	-	-	-	-	-	-
	SV-4		1	-	-	-	-	-	-	-
	OA-1		1	-	-	-	-	-	-	-
QA/QC	Soil Vapor	Duplicate	1	-	-	-	-	-	-	-
TOTAL RI SOIL VAPOR SAMPLES:			**6**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

1. All locations were sampled and archived by the laboratory for potential analysis / reanalysis.
2. Blind duplicate and MS/MSD samples were collected at a frequency of 1 per 20 samples/media collected.
3. GW field parameters including: pH, specific conductance, temperature, DO, ORP, and turbidity were collected and recorded.
4. Trip blanks were submitted to the laboratory each day aqueous volatile organic samples were collected.

Acronyms:

TCL = Target Compound List
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
TAL = Target Analyte List
CP-51 = Commissioner's Policy 51/ Soil Cleanup Guidance
PCBs = Polychlorinated Biphenyls
PFAS = Per- and polyfluoroalkyl Substances
QA/QC = quality control/quality assurance sample
MS = matrix spike
MSD = matrix spike duplicate

TABLE 2
MONITORING WELL CONSTRUCTION DETAILS
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Well Identification			Well Elevations				Well Diameter (inches)	Well Screen Data		
Well Number	Well Type	Date Completed	TOR Elevation (ft)	Ground Elevation (ft)	Total Depth (fbgs)	Bottom of Well Elevation (fmsl)		Length of Well Screen (feet)	Screen Interval (ft)	Screen Interval (fbgs)
PZ-1	OB	01/22/2018	N/A[2]	N/A	12.00	N/A	1	10.00	N/A	2.00 to 12.00
PZ-2	OB	01/22/2018	499.01	499.68	5.00	494.68	1	4.50	499.18 to 494.68	0.50 to 5.00
PZ-3	OB	01/22/2018	N/A[3]	N/A	8.00	N/A	1	5.00	N/A	3.00 to 8.00
PZ-4	OB	01/22/2018	498.85	499.00	8.00	491.00	1	5.00	496.00 to 491.00	3.00 to 8.00
PZ-5	OB	01/22/2018	499.31	499.38	7.00	492.38	1	5.00	497.38 to 492.38	2.00 to 7.00
PZ-6	OB	04/05/2021	498.58	498.86	10.00	488.86	1	5.00	493.86 to 488.86	5.00 to 10.00
PZ-7	OB	04/05/2021	498.89	499.22	9.00	490.22	1	4.00	494.22 to 490.22	5.00 to 9.00
PZ-8	OB	04/05/2021	504.04	504.31	11.00	493.31	1	5.00	498.31 to 493.31	6.00 to 11.00
PZ-9	OB	12/13/2023	499.11	499.41	5.00	494.41	1	5.00	498.91 to 494.41	0.50 to 5.00
MW-1	OB	12/20/2018	497.96	498.42	15.50	482.92	2	9.00	491.92 to 482.92	6.50 to 15.50
MW-1D	BR	12/20/2018	497.92	498.39	23.00	475.39	2	7.00	482.39 to 475.39	16.00 to 23.00
MW-2D	BR	12/20/2018	499.41	499.69	21.60	478.09	2	10.00	488.09 to 478.09	11.60 to 21.60
MW-4D	BR	12/21/2018	499.34	499.40	19.00	480.40	2	8.00	488.40 to 480.40	11.00 to 19.00
MW-8	OB	01/27/2021	501.58	498.93	10.00	488.93	2	5.00	493.93 to 488.93	5.00 to 10.00
MW-8D	BR	01/27/2021	501.52	498.71	20.00	478.71	2	10.00	488.71 to 478.71	10.00 to 20.00
MW-9	OB	01/27/2021	516.11	513.52	7.50	506.02	2	3.50	509.52 to 506.02	4.00 to 7.50
MW-10	OB	01/27/2021	526.78	523.86	5.00	518.86	2	3.00	521.86 to 518.86	2.00 to 5.00
MW-11	OB	01/27/2021	537.73	534.72	5.00	529.72	2	3.00	532.72 to 529.72	2.00 to 5.00
MW-12	OB	01/27/2021	516.29	513.42	7.00	506.42	2	3.00	509.42 to 506.42	4.00 to 7.00
MW-13	OB	01/29/2021	538.67	535.90	5.00	530.90	2	3.00	533.90 to 530.90	2.00 to 5.00
MW-14	OB	01/29/2021	549.48	546.80	6.50	540.30	2	4.50	544.80 to 540.30	2.00 to 6.50

Abbreviations:

DTW = depth to water
fbgs = feet below ground surface
fbTOR = feet below top of riser
fmsl = feet above mean sea level
OB = Indicates a well completed in shallow unconsolidated overburden
TOR = top of riser

Notes:

1. All well surveys based on site specific elevation of 500', wells surveyed January 5, 2022, October 21, 2022, March 14, 2025.
2. PZ-1 was removed during the initial Phase II investigation.
2. PZ-3 was destroyed during emergency demolition activities at the Site.

= Well location removed/destroyed or does not produce water

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Location	Grade (ft)	TOR Elevation [1] (ft)	DTP (if present) (fbTOR)	DTW (fbTOR) [2]	DTW (fb Grade)	Groundwater Elevation (ft)
PZ-1[3]	N/A	N/A	N/A	N/A	N/A	N/A
PZ-2	499.68	499.01	NP	2.34	3.01	496.67
PZ-3[4]	N/A	N/A	NP	1.10	N/A	N/A
PZ-4	499.00	498.85	NP	3.40	3.55	495.45
PZ-5	499.38	499.31	NP	2.45	2.52	496.86
PZ-6	498.86	498.58	NP	2.60	2.88	495.98
PZ-7	499.22	498.89	NP	2.00	2.33	496.89
PZ-8	504.31	504.04	NP	4.80	5.07	499.24
PZ-9	499.41	499.11	NP	1.52	1.82	497.59
MW-1	498.42	497.96	NP	2.95	3.41	495.01
MW-1D	498.39	497.92	NP	5.67	6.14	492.25
MW-2D	499.69	499.41	NP	4.97	5.25	494.44
MW-4D	499.40	499.34	NP	4.80	4.86	494.54
MW-8	498.93	501.58	NP	5.60	2.95	495.98
MW-8D	498.71	501.52	NP	7.40	4.59	494.12
MW-9	513.52	516.11	NP	4.70	2.11	511.41
MW-10	523.86	526.78	NP	DRY	DRY	DRY
MW-11	534.72	537.73	NP	DRY	DRY	DRY
MW-12	513.42	516.29	NP	5.40	2.53	510.89
MW-13	535.90	538.67	NP	4.40	1.63	534.27
MW-14	546.80	549.48	NP	DRY	DRY	DRY

Notes:

1. Wells surveyed on January 5, 2022 and October 21, 2022.
2. Water level measured during sampling on February 4, 2021 with the exception of PZ-6, PZ-7, and PZ-8, which were sampled on April 6, 2021
3. PZ-1 was removed during the initial Phase II investigation.
4. PZ-3 was destroyed durring emergency demolition activities at the Site.

TOR = Top of riser
DTP = Depth to product
NP = No product
DTW = Depth to water
fb = feet below

= Well location removed/destroyed or does not produce water

TABLE 4
SUMMARY OF RI SURFACE SOIL/FILL ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Parameter [1]	Unrestricted SCOs[2] (mg/kg)	Residential SCOs[2] (mg/kg)	Restricted-Residential SCOs[2] (mg/kg)	Commercial SCOs[2] (mg/kg)	Industrial SCOs[2] (mg/kg)	Surface Soil Sample Locations																	
						SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20
						6/14/22				9/14/21															
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg [3]																									
Acenaphthylene	**100**	**100**	**100**	**500**	**1000**	ND	0.027 J	0.034 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	**1**	**1**	**1**	**5.6**	**11**	ND	0.23	0.25	ND	0.12 J	ND	ND	ND	0.1 J	ND	0.036 J	ND	ND	ND	ND	ND	ND	0.036 J	ND	ND
Benzo(a)pyrene	**1**	**1**	**1**	**1**	**1.1**	ND	0.3	0.42	ND	0.12 J	ND	ND	0.06 J	0.11 J	ND	0.037 J	ND	ND	ND	ND	0.038 J	0.065 J	ND	ND	0.052 J
Benzo(b)fluoranthene	**1**	**1**	**1**	**5.6**	**11**	0.045 J	0.41	0.57	ND	0.2	ND	ND	0.11 J	0.16 J	0.064 J	0.07 J	0.069 J	ND	ND	ND	0.064 J	0.12 J	0.069 J	ND	0.1 J
Benzo(g,h,i)perylene	**100**	**100**	**100**	**500**	**1000**	ND	0.25	0.36	ND	0.1 J	ND	ND	0.078 J	0.13 J	0.052 J	0.058 J	0.061 J	ND	0.19 J	0.18 J	0.057 J	0.082 J	0.045 J	ND	ND
Benzo(k)fluoranthene	**0.8**	**1**	**3.9**	**56**	**110**	ND	0.19 J	0.28	ND	0.055 J	ND	ND	0.033 J	0.06 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	--	--	--	--	--	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	--	--	--	--	--	ND	0.026 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	**1**	**1**	**3.9**	**56**	**110**	ND	0.28	0.39	ND	0.13 J	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND	ND	0.071 J	ND	ND	0.063 J
Dibenzo(a,h)anthracene	**0.33**	**0.33**	**0.33**	**0.56**	**1.1**	ND	0.064 J	0.11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**100**	**100**	**100**	**500**	**1000**	0.041 J	0.43	0.42	3.5 J	0.32	0.053 J	0.04 J	0.15 J	0.26	0.11 J	0.12 J	0.12 J	0.045 J	0.35 J	0.33 J	0.095 J	0.15 J	0.11 J	ND	0.11 J
Fluorene	**30**	**100**	**100**	**500**	**1000**	ND	ND	ND	ND	0.024 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	**0.5**	**5.6**	**11**	ND	0.21	0.32	ND	0.094 J	ND	ND	0.065 J	0.12 J	0.051 J	0.051 J	0.054 J	ND	ND	0.15 J	0.049 J	0.076 J	0.041 J	ND	0.039 J
Phenanthrene	**100**	**100**	**100**	**500**	**1000**	ND	0.15 J	0.12 J	ND	0.19 J	ND	ND	0.057 J	0.086 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	**100**	**100**	**100**	**500**	**1000**	0.033 J	0.37	0.4	2.1 J	0.21	0.034 J	ND	0.12 J	0.19 J	0.071 J	0.074 J	0.075 J	ND	0.2 J	0.2 J	0.075 J	0.12 J	0.073 J	ND	0.084 J
TAL Metals - mg/kg																									
Aluminum	--	--	--	--	--	16300	17800	13200	3900	8300	22700	19000	20200	22400	23300	22400	19800	22100	19700	19700	18700	19300	18100	25500 B	22100 B
Antimony	--	--	--	--	--	4.3 J	1.7 J	2.6 J	0.7 J	1.8 J	1.7 J	1.4 J	1.2 J	1.6 J	1.5 J	1.6 J	1.1 J	1.8 J	0.86 J	1.4 J	1.5 J	1.5 J	1.2 J	4.3 J	3.8 J
Arsenic	**13**	**16**	**16**	**16**	**16**	7	8.9	8.3	2.4	5	6.6	5.2	5.8	6.2	8.2	5.6	7.3	6.7	5.7	7.4	6.4	5.4	7.1	5.6	6.7
Barium	**350**	**350**	**400**	**400**	**10000**	68.7	79.2	60.4	32.8	46.2	88.9	60.6	72.5	98.3	92	70.1	73.1	81.2	48	47.1	59.6	64.2	73.1	97.1	56
Beryllium	**7.2**	**14**	**72**	**590**	**2700**	0.85	0.92	0.8	0.46	0.51	1	0.72	0.76	1.1	1.1	0.77	0.87	0.94	0.55	0.41	0.74	0.66	0.84	1.1	0.62
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	0.48	0.62	0.42	0.33	0.47	0.53	0.42	0.63	1.1	0.69	0.44	0.66	0.53	0.47	0.49	0.49	0.45	0.5	0.38	0.37
Calcium	--	--	--	--	--	12200 B	17400 B	42100 B	123000 B	43900 B	2210 B	2840 B	1430 B	3220 B	2580 B	1330 B	2580 B	2170 B	832 B	166 B	2240 B	2830 B	3520 B	2630	1450
Chromium	**30**	**36**	**180**	**1,500**	**6,800**	**45.1**	**50.8**	**67.9**	**54.6**	**33.5**	29.3	27.4	28.6	**31.9**	**30.7**	**31.7**	26.7	**30.8**	27.6	26.4	25.6	27.2	25.3	**35 ^+**	**31.3 ^+**
Cobalt	--	--	--	--	--	11.6	15.1	12	2.2	6.7	11.8	12.3	16.9	42.1	15.3	12.4	10.6	15.2	7.2	6.9	12.4	12.6	15.3	18	9.8
Copper	**50**	**270**	**270**	**270**	**10000**	39.4	40.7	**62.1**	20.3	30.9	18.3	18.2	15.5	20.3	18.7	16.3	20.9	20.1	16.8	16.5	21	17.1	22	15.3	19.7
Iron	--	--	--	--	--	39300 B	36400 B	38300 B	10700 B	21600	30100	26000	24700	27800	31300	29800	26400	31400	24900	24600	24200	25400	27000	35500	26800
Lead	**63**	**400**	**400**	**1,000**	**3,900**	45.2	56.6	46.7	**149**	41.7	30.8	34.7	56.5	**86.4**	52.6	30.5	42.8	36.1	**145**	**64.2**	38.6	41.1	54.1	22	**83.6**
Magnesium	--	--	--	--	--	4410	5150	5950	8380	5120	3910	4090	3600	4080	3910	4510	3330	4530	3560	2880	3550	3710	3460	5320	4100
Manganese	**1,600**	**2,000**	**2,000**	**10,000**	**10,000**	803 B	1190 B	1020 B	416 B	628 B	639 B	645 B	1380 B	1240 B	1080 B	621 B	556 B	860 B	206 B	137 B	472 B	768 B	666 B	1470 B	215 B
Nickel	**30**	**140**	**310**	**310**	**10000**	**45.3**	**49.5**	**63.7**	12.5	**31.2**	28.8	26.9	25.9	**39.2**	29.9	28.4	26.5	**31.8**	24.4	21.3	26.9	24.1	28.2	**34.2**	29
Potassium	--	--	--	--	--	3220	3510	2960	921	1670	3090	2270	2350	3080	3240	3080	3060	2740	2260	1750	2720	2690	2630	3350	2800
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	1.5 J	3 J	2.6 J	2.7 J	2 J	3.1 J	2.6 J	2.8 J	2.6 J	2.5 J	3.1 J	2.2 J	2.4 J	2.8 J	3.9 J	2.5 J
Sodium	--	--	--	--	--	69.5 J	85.7 J	107 J	159	104 J	76.3 J	71.5 J	60.7 J	88.8 J	88.1 J	70.8 J	78.1 J	91.1 J	64.8 J	52.8 J	68.4 J	63.5 J	75.5 J	91.1 J	56.5 J
Vanadium	--	--	--	--	--	36.2	49.5	38.4	13.2	22.7	42.8	35.4	37.9	41.1	46.6	41.6	41	41.3	38.5	43.5	36.9	36	35.7	46.4	43.1
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	**139**	**316**	**135**	**259**	**135**	**124**	93.1	**123**	**165**	**139**	102	**125**	107	106	106	105	101	109	97.8	**111**
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	0.069	0.085	0.084	0.0062 J	0.083	0.071	0.063	0.074	0.12	0.087	0.067	0.08	0.082	0.09	0.11	0.074	0.093	0.076	0.098	0.069
Organochlorine Pesticides - mg/kg [3]																									
4,4'-DDD	**0.0033**	**2.6**	**13**	**92**	**180**	ND	**0.0034 J**	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	0.00073 J	ND	ND
4,4'-DDE	**0.0033**	**1.8**	**8.9**	**62**	**120**	0.0012 J	0.0029 J	ND	ND	0.0018 J	0.0016 J	ND	ND	**0.0054**	--	--	ND	ND	**0.0041**	**0.0036**	--	--	ND	ND	0.0017 J
4,4'-DDT	**0.0033**	**1.7**	**7.9**	**47**	**94**	ND	ND	ND	ND	ND	ND	0.0018 J	0.0028 J	**0.0036 J**	--	--	0.0023 J	ND	**0.011**	**0.005**	--	--	0.0021 J	ND	0.0032
alpha-BHC	**0.02**	**0.097**	**0.48**	**3.4**	**6.8**	0.00057 J	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	ND	ND	ND
beta-BHC	**0.036**	**0.072**	**0.36**	**3**	**14**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	ND	ND	ND
Endrin	**0.014**	**2.2**	**11**	**89**	**410**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	ND	ND	ND
Endrin aldehyde	--	--	--	--	--	ND	ND	ND	ND	0.0016 J	ND	ND	ND	0.0013 J	--	--	0.001 J	ND	0.002 J	0.0019 J	--	--	ND	ND	0.0013 J
Endrin ketone	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	0.00086 J	0.00095 J	ND	ND	--	--	ND	ND	ND
gamma-BHC (Lindane)	**0.1**	**0.28**	**1.3**	**9.2**	**23**	0.00045 J	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	0.00079 J	--	--	ND	ND	ND
Methoxychlor	--	--	--	--	--	ND	ND	ND	ND	0.0018 J	0.0015 JN	0.0022 J	0.002 J	ND	--	--	ND	0.0018 JN	ND	ND	--	--	ND	ND	ND
trans-Chlodane	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	ND	ND	ND
Herbicides - mg/kg																									
Herbicides	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	ND	ND	ND
Polychlorinated Biphenyls (PCBs) mg/kg																									
Total PCBs	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	ND	ND	ND
Perfluorinated Alky! Acids - ug/kg [3]																									
Perfluorobutanoic Acid (PFBA)	--	--	--	--	--	ND	0.46 J	ND	ND	ND	0.41 J	ND	0.22 J	0.28 J	--	--	ND	ND	0.29 J	1.1	--	--	ND	ND	0.22 J
Perfluoropentanoic Acid (PFPeA)	--	--	--	--	--	0.11 J	0.12 J	0.09 J	ND	ND	0.13 J	ND	0.068 J	0.073 J	--	--	ND	0.069 J	0.081 J	0.29	--	--	ND	0.065 J	0.055 J
Perfluorohexanoic Acid (PFHxA)	--	--	--	--	--	0.19 EMPC	0.18 J	0.19 EMPC	ND	0.14 JI	0.17 J	0.16 JI	0.13 J	0.14 JI	--	--	0.13 J	0.12 J	0.12 JI	0.34	--	--	0.042 J	0.094 J	0.11 J
Perfluoroheptanoic Acid (PFHpA)	--	--	--	--	--	0.14 J	0.18 J	0.11 J	ND	0.058 J	0.13 J	0.063 J	0.11 J	0.095 J	--	--	0.085 J	0.1 J	0.093 J	0.42	--	--	ND	0.067 J	0.097 J
Perfluorooctanoic Acid (PFOA)	**0.66**	**6.6**	**33**	**500**	**600**	0.5	0.56	0.31	ND	0.14 J	0.48	0.21 J	0.33	0.25 J	--	--	0.43	0.43	0.17 J	0.57	--	--	0.054 J	0.41	0.25 J
Perfluorononanoic Acid (PFNA)	--	--	--	--	--	0.24 J	0.24 J	0.2 J	0.037 J	0.086 J	0.14 J	0.1 J	0.16 J	0.15 J	--	--	0.19 J	0.12 J	0.13 J	0.28	--	--	0.029 J	0.086 J	0.15 J
Perfluorodecanoic Acid (PFDA)	--	--	--	--	--	0.19 J	0.15 J	0.16 J	0.064 J	0.093 JB	ND	ND	ND	0.11 JB	--	--	0.076 JB	ND	0.11 JB	0.14 JB	--	--	ND	ND	0.082 JB
Perfluoroundecanoic Acid (PFUnA)	--	--	--	--	--	0.13 J	0.14 J	0.14 J	0.079 J	0.11 J	0.074 J	0.075 J	0.091 J	0.17 J	--	--	0.086 J	0.044 J	0.16 J	0.18 J	--	--	ND	0.03 JI	0.1 J
Perfluorododecanoic Acid (PFDoA)	--	--	--	--	--	0.095 J	0.097 J	0.074 J	0.13 J	0.058 J	ND	ND	0.033 J	0.054 J	--	--	0.03 J	ND	0.065 J	0.066 J	--	--	ND	ND	0.033 J
Perfluorotridecanoic Acid (PFTrDA)	--	--	--	--	--	0.053 J	0.067 J	0.059 J	0.066 J	0.053 J	0.024 J	0.029 J	0.036 J	0.054 J	--	--	0.03 J	ND	0.048 J	0.065 J	--	--	ND	ND	0.03 J
Perfluorotetradecanoic Acid (PFTA)	--	--	--	--	--	ND	0.038 J	0.043 J	0.062 J	0.051 J	ND	ND	ND	ND	--	--	ND	ND	0.038 J	0.035 J	--	--	ND	ND	ND
Perfluorooctanesulfonic Acid (PFOS)	**0.88**	**8.8**	**44**	**440**	**440**	**2.4**	**2.3**	**1.5**	0.27	0.88 EMPC	0.58 EMPC	0.48 EMPC	0.64 EMPC	0.77 EMPC	--	--	0.68 EMPC	0.48 EMPC	0.69 EMPC	**1.4 B**	--	--	ND	0.41 EMPC	0.58 B
Perfluorodecanesulfonic Acid (PFDS)	--	--	--	--	--	0.062 J	0.029 J	0.72	0.066 J	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	ND	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs).
3. Sample results were reported by the laboratory in micrograms per kilogram (ug/kg) and converted to milligram per kilogram (mg/kg) for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No SCO available, or sample not analyzed for paramter.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Compound was found in the blank and sample.
EMPC = Value is estimated maximum possible concentration
^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high based.

Bold	= Result exceeds Unrestricted Use SCOs
Bold	= Result exceeds Residential Use SCOs
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.
Bold	= Result exceeds Industrial Use SCOs

TABLE 5
SUMMARY OF PHASE II AND RI SUBSURFACE SOIL/FILL ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

ROUX

Parameter [1]	Protection of Groundwater SCOs[2] (mg/kg)	Unrestricted SCOs[2] (mg/kg)	Residential SCOs[2] (mg/kg)	Restricted-Residential SCOs[2] (mg/kg)	Commercial SCOs[2] (mg/kg)	Industrial SCOs[2] (mg/kg)	Phase II Sample Locations						
							SB-1 (10-12 FT)	SB-3 (4-4.5 FT)	SB-4 (2-4 FT)	SB-7 (4-6 FT)	SB-7 (6-8 FT)	SB-8 (4-6 FT)	SB-11 (2-4 FT)
							1/22/2018						
TCL Volatile Organic Compounds (VOCs) - mg/kg [3]													
2-Butanone (MEK)	0.12	0.12	100	100	500	1000	ND	ND	--	ND	ND	ND	ND
Acetone	0.05	0.05	100	100	500	1000	ND	ND	--	ND	ND	ND	ND
Chloroform	0.37	0.37	10	49	350	700	ND	ND	--	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.25	0.25	59	100	500	1000	ND	0.17 J	--	ND	0.28	0.26	ND
Methylcyclohexane	--	--	--	--	--	--	ND	ND	--	ND	ND	ND	ND
Methylene Chloride	0.05	0.05	51	100	500	1000	0.1 JB	0.33 JB	--	2 JB	0.19 JB	0.11 JB	0.2 JB
Tetrachloroethene	1.3	1.3	5.5	19	150	300	1	44	--	120	19	1.1	13
Toluene	0.7	0.7	100	100	500	1000	ND	ND	--	ND	ND	ND	ND
Trichloroethene	0.47	0.47	10	21	200	400	ND	1.5	--	ND	0.94	0.61	0.18 J
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg [3]													
Benzo(a)anthracene	1	1	1	1	5.6	11	--	--	ND	--	--	--	--
Benzo(a)pyrene	22	1	1	1	1	1.1	--	--	ND	--	--	--	--
Benzo(b)fluoranthene	1.7	1	1	1	5.6	11	--	--	ND	--	--	--	--
Benzo(g,h,i)perylene	1000	100	100	100	500	1000	--	--	ND	--	--	--	--
Bis(2-ethylhexyl) phthalate	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	1	1	1	3.9	56	110	--	--	ND	--	--	--	--
Di-n-octyl phthalate	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	1000	100	100	100	500	1000	--	--	ND	--	--	--	--
Indeno(1,2,3-cd)pyrene	8.2	0.5	0.5	0.5	5.6	11	--	--	ND	--	--	--	--
Phenanthrene	1000	100	100	100	500	1000	--	--	ND	--	--	--	--
Pyrene	1000	100	100	100	500	1000	--	--	ND	--	--	--	--
TAL Metals - mg/kg													
Aluminum	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	16	13	16	16	16	16	--	--	--	--	--	--	--
Barium	820	350	350	400	400	10000	--	--	--	--	--	--	--
Beryllium	47	7.2	14	72	590	2700	--	--	--	--	--	--	--
Cadmium	7.5	2.5	2.5	4.3	9.3	60	--	--	--	--	--	--	--
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	19	30	36	180	1,500	6,800	--	--	--	--	--	--	--
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1720	50	270	270	270	10000	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	450	63	400	400	1,000	3,900	--	--	--	--	--	--	--
Magnesium	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	2,000	1,600	2,000	2,000	10,000	10,000	--	--	--	--	--	--	--
Nickel	130	30	140	310	310	10000	--	--	--	--	--	--	--
Potassium	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	4	3.9	36	180	1,500	6,800	--	--	--	--	--	--	--
Silver	8.3	2	36	180	1,500	6,800	--	--	--	--	--	--	--
Sodium	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	2,480	109	2,200	10,000	10,000	10,000	--	--	--	--	--	--	--
Mercury	0.73	0.18	0.81	0.81	2.8	5.7	--	--	--	--	--	--	--
Organochlorine Pesticides - mg/kg													
4,4'-DDD	14	0.0033	2.6	13	92	180	--	--	--	--	--	--	--
4,4'-DDE	17	0.0033	1.8	8.9	62	120	--	--	--	--	--	--	--
4,4'-DDT	136	0.0033	1.7	7.9	47	94	--	--	--	--	--	--	--
beta-BHC	0.09	0.036	0.072	0.36	3	14	--	--	--	--	--	--	--
delta-BHC	0.25	0.04	100	100	500	1000	--	--	--	--	--	--	--
Dieldrin	0.1	0.005	0.039	0.2	1.4	2.8	--	--	--	--	--	--	--
Endosulfan I	102	2.4	4.8	24	200	920	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	0.1	0.1	0.28	1.3	9.2	23	--	--	--	--	--	--	--
Methoxychlor	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides - mg/kg													
Herbicides	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) mg/kg [3]													
PCB-1254	--	--	--	--	--	--	--	--	--	--	--	--	--
PCB-1260	--	--	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	0.1	1	1	1	25	--	--	--	--	--	--	--
Perfluorinated Alkyl Acids - ug/kg													
Perfluorobutanoic Acid (PFBA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluoropentanoic Acid (PFPeA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorohexanoic Acid (PFHxA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluoroheptanoic Acid (PFHpA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorooctanoic Acid (PFOA)	0.66	0.66	6.6	33	500	600	--	--	--	--	--	--	--
Perfluorononanoic Acid (PFNA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorodecanoic Acid (PFDA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluoroundecanoic Acid (PFUnA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorotridecanoic Acid (PFTrDA)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorohexanesulfonic Acid (PFHxS)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluoroheptanesulfonic Acid (PFHpS)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorooctanesulfonic Acid (PFOS)	0.88	0.88	8.8	44	440	440	--	--	--	--	--	--	--
Perfluorodecanesulfonic Acid (PFDS)	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorooctanesulfonamide (FOSA)	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	--	--	--	--	--	--	--	--	--	--	--	--	--
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs) and Sampling, Analysis, and Assessment of PFAS Guidance October 2020.
3. Sample results were reported by the laboratory in micograms per kilogram (ug/kg) and converted to milligram per kilogram (mg/kg) for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No SCO available or sample not analyzed for parameter.
B - Compound was found in the blank and sample.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
^6+ -Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
EMPC = Value is estimated maxium possible concentration

Bold	= Result exceeds Protection Of Groundwater SCOs
Bold	= Result exceeds Unrestricted Use SCOs. In instances where the USCO and Protection of Groundwater SCO are the same and an analyte exceeds, the Protection of Groundwater SCO exceedance is identified.]
Bold	= Result exceeds Residential Use SCOs
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.
Bold	= Result exceeds Industrial Use SCOs

TABLE 5
SUMMARY OF PHASE II AND RI SUBSURFACE SOIL/FILL ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

ROUX

Parameter [1]	Protection of Groundwater SCOs[2] (mg/kg)	Unrestricted SCOs[2] (mg/kg)	Residential SCOs[2] (mg/kg)	Restricted-Residential SCOs[2] (mg/kg)	Commercial SCOs[2] (mg/kg)	Industrial SCOs[2] (mg/kg)	Soil Boring/Monitoring Well Sample Locations														
							SB-17 (8-9 FT)	SB-18 (4-5 FT)	SB-19 (6-7 FT)	SB-20 (7-8 FT)	SB-21 (4-6 FT)	SB-22 (3-4 FT)	SB-23 (9-11 FT)	MW-8/8D (4-5 FT)	MW-9 (6-7 FT)	MW-10 (4-5 FT)	MW-11 (4-5 FT)	MW-12 (6-7 FT)	MW-13 (4-5 FT)	MW-14 (2-3 FT)	PZ-9 (4-5 FT)
							4/5/21							1/28/21		2/1/21		1/28/21	2/1/21		12/13/23
TCL Volatile Organic Compounds (VOCs) - mg/kg [3]																					
2-Butanone (MEK)	**0.12**	**0.12**	**100**	**100**	**500**	**1000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0045 J	ND	ND	ND	ND	0.0036 J
Acetone	**0.05**	**0.05**	**100**	**100**	**500**	**1000**	ND	ND	ND	0.011 J	0.007 J	0.02 J	0.0051 J	ND	ND	0.05	0.006 J	ND	0.0041 J	0.049	0.037
Chloroform	**0.37**	**0.37**	**10**	**49**	**350**	**700**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**0.25**	**0.25**	**59**	**100**	**500**	**1000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.078 J	ND	ND	ND
Methylene Chloride	**0.05**	**0.05**	**51**	**100**	**500**	**1000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035 J	ND	ND	0.004 J	ND	ND
Tetrachloroethene	**1.3**	**1.3**	**5.5**	**19**	**150**	**300**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**0.7**	**0.7**	**100**	**100**	**500**	**1000**	ND	ND	ND	ND	0.00048 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**0.47**	**0.47**	**10**	**21**	**200**	**400**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg [3]																					
Benzo(a)anthracene	**1**	**1**	**1**	**1**	**5.6**	**11**	--	--	--	--	--	--	--	ND	ND	ND	ND	0.057 J	ND	ND	--
Benzo(a)pyrene	**22**	**1**	**1**	**1**	**1**	**1.1**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.053 J	ND	ND	--
Benzo(b)fluoranthene	**1.7**	**1**	**1**	**1**	**5.6**	**11**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.064 J	ND	ND	--
Benzo(g,h,i)perylene	**1000**	**100**	**100**	**100**	**500**	**1000**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.029 J	ND	ND	--
Bis(2-ethylhexyl) phthalate	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.097 J	ND	ND	--
Chrysene	**1**	**1**	**1**	**3.9**	**56**	**110**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.065 J	ND	ND	--
Di-n-octyl phthalate	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.051 J	ND	ND	--
Fluoranthene	**1000**	**100**	**100**	**100**	**500**	**1000**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.12 J	ND	ND	--
Indeno(1,2,3-cd)pyrene	**8.2**	**0.5**	**0.5**	**0.5**	**5.6**	**11**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.031 J	ND	ND	--
Phenanthrene	**1000**	**100**	**100**	**100**	**500**	**1000**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.062 J	ND	ND	--
Pyrene	**1000**	**100**	**100**	**100**	**500**	**1000**	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.1 J	ND	ND	--
TAL Metals - mg/kg																					
Aluminum	--	--	--	--	--	--	--	--	--	--	--	--	10900	18300	9710	17900	20800	15100	21500	19300	--
Antimony	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
Arsenic	**16**	**13**	**16**	**16**	**16**	**16**	--	--	--	--	--	--	5.3	5	**14.7**	4.3	2.6	**16.1**	2.8	3.8	--
Barium	**820**	**350**	**350**	**400**	**400**	**10000**	--	--	--	--	--	--	87.2	39.4 ^6+	32.9 ^6+	46.5	57.4	83.3 ^6+	63.2	51.1	--
Beryllium	**47**	**7.2**	**14**	**72**	**590**	**2700**	--	--	--	--	--	--	0.56	0.9	0.54	1.2	0.98	0.89	1	0.98	--
Cadmium	**7.5**	**2.5**	**2.5**	**4.3**	**9.3**	**60**	--	--	--	--	--	--	0.41	ND	ND	ND	ND	0.54	ND	ND	--
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	82300	6880	22500	1450	1430	18200	18700	3020	--
Chromium	**19**	**30**	**36**	**180**	**1,500**	**6,800**	--	--	--	--	--	--	**19.6**	**31.0**	17.2	**26.8**	**32.3**	**27.5**	**36.3**	**31.8**	--
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	7.6	16.4	14.3	21.1	17.4	15.4	20.2	17.9	--
Copper	**1720**	**50**	**270**	**270**	**270**	**10000**	--	--	--	--	--	--	19.4	23	**56.1**	22	15.8	**71.9**	16	19.4	--
Iron	--	--	--	--	--	--	--	--	--	--	--	--	16600	34200	26400	30700	28700	29500	33400	29300	--
Lead	**450**	**63**	**400**	**400**	**1,000**	**3,900**	--	--	--	--	--	--	25.2	16.4	39.7	11.7	4.8	51.9	3.7	8.2	--
Magnesium	--	--	--	--	--	--	--	--	--	--	--	--	4580	6420	5520	6510	7070	6550	9630	6430	--
Manganese	**2,000**	**1,600**	**2,000**	**2,000**	**10,000**	**10,000**	--	--	--	--	--	--	599 B	426	226	255	284	234	318	422	--
Nickel	**130**	**30**	**140**	**310**	**310**	**10000**	--	--	--	--	--	--	24	**52.6**	**58.9**	**59.9**	**55.8**	**91.7**	**67.2**	**57.2**	--
Potassium	--	--	--	--	--	--	--	--	--	--	--	--	2220	2970	1890	3850	3310	3380	4140	3350	--
Selenium	**4**	**3.9**	**36**	**180**	**1,500**	**6,800**	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
Silver	**8.3**	**2**	**36**	**180**	**1,500**	**6,800**	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
Sodium	--	--	--	--	--	--	--	--	--	--	--	--	190	ND	ND	ND	ND	ND	ND	ND	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--	22.3	28.3	32.4	26.5	31.3	76.7	32	29.9	--
Zinc	**2,480**	**109**	**2,200**	**10,000**	**10,000**	**10,000**	--	--	--	--	--	--	85.1	60.2	44.2	48.6	56.3	**277**	55.8	59	--
Mercury	**0.73**	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	--	--	--	--	--	--	0.03	ND	0.022	0.046	0.032	0.048	0.046	0.052	--
Organochlorine Pesticides - mg/kg																					
4,4'-DDD	**14**	**0.0033**	**2.6**	**13**	**92**	**180**	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
4,4'-DDE	**17**	**0.0033**	**1.8**	**8.9**	**62**	**120**	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
4,4'-DDT	**136**	**0.0033**	**1.7**	**7.9**	**47**	**94**	--	--	--	--	--	--	ND	ND	ND	ND	0.00068 J	ND	ND	ND	--
beta-BHC	**0.09**	**0.036**	**0.072**	**0.36**	**3**	**14**	--	--	--	--	--	--	ND	0.00091 J	ND	ND	ND	ND	ND	ND	--
delta-BHC	**0.25**	**0.04**	**100**	**100**	**500**	**1000**	--	--	--	--	--	--	ND	ND	ND	ND	0.00063 J	ND	0.00064 J	ND	--
Dieldrin	**0.1**	**0.005**	**0.039**	**0.2**	**1.4**	**2.8**	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
Endosulfan I	**102**	**2.4**	**4.8**	**24**	**200**	**920**	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
Endrin ketone	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
gamma-BHC (Lindane)	**0.1**	**0.1**	**0.28**	**1.3**	**9.2**	**23**	--	--	--	--	--	--	ND	ND	ND	0.0004 J	ND	ND	ND	ND	--
Methoxychlor	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	0.0007 J	ND	ND	ND	ND	ND	--
Herbicides - mg/kg																					
Herbicides	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
Polychlorinated Biphenyls (PCBs) mg/kg [3]																					
PCB-1254	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--
PCB-1260	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	0.11 J	ND	ND	ND	ND	ND	--
Total PCBs	**0.1**	**0.1**	**1**	**1**	**1**	**25**	--	--	--	--	--	--	ND	ND	**0.11 J**	ND	ND	ND	ND	ND	--
Perfluorinated Alkyl Acids - ug/kg																					
Perfluorobutanoic Acid (PFBA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluoropentanoic Acid (PFPeA)	--	--	--	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	--	--	--
Perfluorohexanoic Acid (PFHxA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluoroheptanoic Acid (PFHpA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorooctanoic Acid (PFOA)	**0.66**	**0.66**	**6.6**	**33**	**500**	**600**	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorononanoic Acid (PFNA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorodecanoic Acid (PFDA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluoroundecanoic Acid (PFUnA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorotridecanoic Acid (PFTrDA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorohexanesulfonic Acid (PFHxS)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluoroheptanesulfonic Acid (PFHpS)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorooctanesulfonic Acid (PFOS)	**0.88**	**0.88**	**8.8**	**44**	**440**	**440**	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorodecanesulfonic Acid (PFDS)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
Perfluorooctanesulfonamide (FOSA)	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs) and Sampling, Analysis, and Assessment of PFAS Guidance October 2020.
3. Sample results were reported by the laboratory in micograms per kilogram (ug/kg) and converted to milligram per kilogram (mg/kg) for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No SCO available or sample not analyzed for parameter.
B - Compound was found in the blank and sample.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
^6+ -Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
EMPC = Value is estimated maxium possible concentration

Bold	= Result exceeds Protection Of Groundwater SCOs
Bold	= Result exceeds Unrestricted Use SCOs. In instances where the USCO and Protection of Grour
Bold	= Result exceeds Residential Use SCOs
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.
Bold	= Result exceeds Industrial Use SCOs

TABLE 5
SUMMARY OF PHASE II AND RI SUBSURFACE SOIL/FILL ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

ROUX

Parameter [1]	Protection of Groundwater SCOs[2] (mg/kg)	Unrestricted SCOs[2] (mg/kg)	Residential SCOs[2] (mg/kg)	Restricted-Residential SCOs[2] (mg/kg)	Commercial SCOs[2] (mg/kg)	Industrial SCOs[2] (mg/kg)	Test Pit Sample Locations												
							TP-1 (1.5-3 FT)	TP-3 (0-1 FT)	TP-6 (3-4 FT)	TP-8 (2-3 FT)	TP-12 (0.5-2 FT)	TP-17 (0.5-2 FT)	TP-19 (1-3 FT)	TP-22 (0-2 FT)	TP-23 (1-3 FT)	TP-28 (4-5 FT)	TP-30 (4-6 FT)	TP-32 (0-0.5 FT)	TP-34 (0-2 FT)
							9/15/21	9/15/21	9/13/21	9/15/21	9/14/21	9/15/21	9/14/21	9/13/21	9/13/21	9/14/21	9/13/21	9/14/21	9/13/21
TCL Volatile Organic Compounds (VOCs) - mg/kg [3]																			
2-Butanone (MEK)	0.12	0.12	100	100	500	1000	ND	ND	ND	ND	ND	ND	0.0068 J	0.0056 J	0.0085 J	0.013 J	ND	ND	0.025 J
Acetone	0.05	0.05	100	100	500	1000	ND	ND	0.008 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.37	0.37	10	49	350	700	ND	ND	0.00035 J	ND	ND	ND	ND	ND	ND	ND	0.00049 J	ND	ND
cis-1,2-Dichloroethene	0.25	0.25	59	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.05	0.05	51	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.3	1.3	5.5	19	150	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	0.7	100	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.47	0.47	10	21	200	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg [3]																			
Benzo(a)anthracene	1	1	1	1	5.6	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	22	1	1	1	1	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25 J	ND	ND
Benzo(b)fluoranthene	1.7	1	1	1	5.6	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35 J	ND	ND
Benzo(g,h,i)perylene	1000	100	100	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	--	--	--	--	--	--	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1	1	1	3.9	56	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	100	100	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36 J	ND	0.022 J
Indeno(1,2,3-cd)pyrene	8.2	0.5	0.5	0.5	5.6	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13 J	ND	ND
Phenanthrene	1000	100	100	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1000	100	100	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32 J	ND	ND
TAL Metals - mg/kg																			
Aluminum	--	--	--	--	--	--	11700	11400	21200	19400	18100	19900	17300	19500	13900	19900	13800	21100	21000
Antimony	--	--	--	--	--	--	1.5 J	0.91 J	ND	1.5 J	1.3 J	1.9 J	1.4 J	ND	ND	1.2 J	0.83 J	1.4 J	ND
Arsenic	16	13	16	16	16	16	7.9	3.6	3.7	10.5	2.7	10.8	2.1 J	2.6	4.6	3.8	9.7	4.4	5.4
Barium	820	350	350	400	400	10000	72.4	43.7 J	47.9	61.6	42.9 J	112	48.6	52.5	37.4	54.4	137 J	71.8	45.9
Beryllium	47	7.2	14	72	590	2700	0.64	0.59	0.92	0.98	0.85	1.4	0.85	1	0.78	0.97	1.1	0.83	0.66
Cadmium	7.5	2.5	2.5	4.3	9.3	60	0.15 J	0.24	0.28	0.33	0.2 J	2	0.19 J	0.26	0.19 J	0.24	1.3	0.32	0.4
Calcium	--	--	--	--	--	--	90500	18300 F2	3440	1570	61800 B	3780 J	22900 B	2110	192	15700 B	53800	1870 B	622
Chromium	19	30	36	180	1,500	6,800	**19.8**	16.6	**33.9**	**26**	**29.1 J**	**25.9**	**26.4**	**29.1**	17.4	**29.1**	**112 J**	**28.3**	**27.9**
Cobalt	--	--	--	--	--	--	12	7.1	23.8	16	14.3	83.4 J	16.4	15.5	11.3	17	10.2	21.8 J	9.2
Copper	1720	50	270	270	270	10000	20	21	12.2	22.5	25.3	44.5 J	**53.6 J**	19.2	25.2	27.5	**59.7 F2**	15	20.7
Iron	--	--	--	--	--	--	24500	17900	32600	30900	25200	39600	26200	23300	17300	27100	41900 F2	29500	27500
Lead	450	63	400	400	1,000	3,900	17.5	12.2	6.4	23.9	4.4	62.4 J	4.3	5.6	9.5	6.9	**218 F2**	16.9	25.5
Magnesium	--	--	--	--	--	--	5400	5540 J	7050	3460	7910 J	3590 J	7370	4920	2940	6330	8680 F1	4130	4150
Manganese	2,000	1,600	2,000	2,000	10,000	10,000	712	164 J	373 B	544	220 F2 B	**3670**	371 B	932 B	252 B	301 B	**2640 J**	1370 J	195 B
Nickel	130	30	140	310	310	10000	**39.7**	28.6	**59.1**	**31.9**	**50.2**	**71 J**	**48.1**	**61.1**	**39.2**	**52.8**	**48.4**	26	28
Potassium	--	--	--	--	--	--	2780	1880 J	2510	1950	3410 J	2440 J	2640	2280	1630	2620	1900 J	2830	2260
Selenium	4	3.9	36	180	1,500	6,800	1.8 J	1.9 J	2.9 J	3.8 J	2.7 J	**4.5 J**	2.1 J	2.2 J	1.5 J	2.3 J	**4 J**	3 J	2.9 J
Silver	8.3	2	36	180	1,500	6,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37 J	ND	ND
Sodium	--	--	--	--	--	--	147 JB	139 J	ND	71.4 JB	94.4 J	64 J	86.5 J	ND	ND	74.8 J	ND	141 J	ND
Vanadium	--	--	--	--	--	--	21	22.4 J	31.2	39.2	27.9 J	41.2	25	28	22.3	30.4	54.5 J	38.4	37.3
Zinc	2,480	109	2,200	10,000	10,000	10,000	40	94.6 F1	59.1	109	43.6	104 J	49.1	53.6	55.5	59.2	**210**	72.2	78.9
Mercury	0.73	0.18	0.81	0.81	2.8	5.7	0.031	0.032	0.034	0.046	0.03 F2	0.052	0.014 J	0.043	0.038	0.028	0.12	0.06	0.072
Organochlorine Pesticides - mg/kg																			
4,4'-DDD	14	0.0033	2.6	13	92	180	ND	ND	ND	ND	ND	ND	ND	0.0016 JN	ND	ND	ND	ND	ND
4,4'-DDE	17	0.0033	1.8	8.9	62	120	ND	ND	ND	ND	ND	ND	ND	0.0013 JN	ND	ND	ND	ND	0.00093 J
4,4'-DDT	136	0.0033	1.7	7.9	47	94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0098 J**	ND	ND
beta-BHC	0.09	0.036	0.072	0.36	3	14	0.00095 J	0.00051 J	0.00062 J	ND	ND	ND	ND	0.00061 J	ND	ND	ND	ND	ND
delta-BHC	0.25	0.04	100	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.1	0.005	0.039	0.2	1.4	2.8	ND	ND	ND	ND	ND	ND	ND	0.00053 J	ND	ND	ND	ND	ND
Endosulfan I	102	2.4	4.8	24	200	920	ND	ND	ND	ND	ND	ND	ND	0.001 J	ND	ND	ND	ND	ND
Endrin ketone	--	--	--	--	--	--	ND	ND	ND	ND	0.0009 J F1	ND	0.00082 J	ND	0.00048 J	0.00062 J	ND	ND	ND
gamma-BHC (Lindane)	0.1	0.1	0.28	1.3	9.2	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0025 J	ND
Herbicides - mg/kg																			
Herbicides	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (PCBs) mg/kg [3]																			
PCB-1254	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	ND	ND
PCB-1260	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.36**	ND	ND
Perfluorinated Alkyl Acids - ug/kg																			
Perfluorobutanoic Acid (PFBA)	--	--	--	--	--	--	ND	ND	0.18 J	0.23 J	ND	ND	ND	ND	0.18 J	ND	ND	ND	0.31 J
Perfluoropentanoic Acid (PFPeA)	--	--	--	--	--	--	ND	ND	ND	0.055 J	ND	ND	ND	ND	ND	ND	ND	0.049 J	0.068 J
Perfluorohexanoic Acid (PFHxA)	--	--	--	--	--	--	ND	ND	ND	0.077 J	ND	0.028 J	ND	ND	0.026 J	ND	0.037 J	0.062 J	0.09 J
Perfluoroheptanoic Acid (PFHpA)	--	--	--	--	--	--	ND	ND	0.028 J	0.053 J	ND	ND	ND	ND	ND	ND	ND	0.063 J	0.078 J
Perfluorooctanoic Acid (PFOA)	0.66	0.66	6.6	33	500	600	ND	ND	0.052 J	0.17 J	0.03 J	ND	ND	0.036 J	0.089 J	ND	0.1 J	0.23	0.38
Perfluorononanoic Acid (PFNA)	--	--	--	--	--	--	ND	ND	ND	0.048 J	ND	ND	ND	ND	ND	ND	0.029 J	0.047 J	0.097 J
Perfluorodecanoic Acid (PFDA)	--	--	--	--	--	--	ND	ND	ND	0.018 J	ND	0.017 J	ND	ND	ND	ND	0.019 J	ND	0.032 J
Perfluoroundecanoic Acid (PFUnA)	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.026 J	ND	ND	ND	ND	ND	ND	0.034 J
Perfluorotridecanoic Acid (PFTrDA)	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic Acid (PFHxS)	--	--	--	--	--	--	ND	ND	0.03 EMPC	0.033 J	ND	0.029 J	ND	0.018 J	0.016 J	ND	0.041 J	ND	0.036 J
Perfluoroheptanesulfonic Acid (PFHpS)	--	--	--	--	--	--	ND	ND	ND	0.02 EMPC	ND	0.019 J	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonic Acid (PFOS)	0.88	0.88	8.8	44	440	440	ND	ND	ND	0.17 JIB	ND	ND	ND	ND	ND	ND	0.87 B	0.23 EMPC	0.38 B
Perfluorodecanesulfonic Acid (PFDS)	--	--	--	--	--	--	ND	ND	0.016 J	ND	ND	0.018 J	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonamide (FOSA)	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.026 J	ND	ND	ND	ND	ND	ND	ND
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.096 J	ND	ND	ND	ND	0.072 J	ND	ND
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid	--	--	--	--	--	--	ND	ND	ND	ND	ND	0.027 J	ND	ND	ND	ND	ND	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs) and Sampling, Analysis, and Assessment of PFAS Guidance October 2020.
3. Sample results were reported by the laboratory in micograms per kilogram (ug/kg) and converted to milligram per kilogram (mg/kg) for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No SCO available or sample not analyzed for parameter.
B - Compound was found in the blank and sample.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
^6+ -Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
EMPC = Value is estimated maxium possible concentration

Bold	= Result exceeds Protection Of Groundwater SCOs
Bold	= Result exceeds Unrestricted Use SCOs. In instances where the USCO and Protection of Grour
Bold	= Result exceeds Residential Use SCOs
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.
Bold	= Result exceeds Industrial Use SCOs

TABLE 6
SUMMARY OF TCLP ANALYTICAL RESULTS
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

PARAMETER[1]	Maximum Concentration for Toxicity Characteristic[2] (mg/L)	SB-7 (4-6)
		1/22/2018
TCLP Volatile Organic Compounds (VOCs) - mg/L		
Tetrachloroethene	**0.7**	**2.6 B**
Trichloroethene	**0.5**	0.0081 J

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Maximum Concentrations of Contaminants for the Toxicity Characteristic per Code of Federal Regulations (CFR) Title 40, Chapter I, Subchapter I, Part 261, Subpart C Characteristics of Hazardous Waste §261.24 Toxicity Characteristics, Table 1.

Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analyte was detected in associated method blank.

Bold = Result is Characteristically Hazardous

TABLE 7
SUMMARY OF PHASE II AND RI GROUNDWATER ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

ROUX

Parameter [1]	NYSDEC Class GA GWQs/GV [2]	Monitoring Well Location															Piezometer Location																					
		MW-1	MW-1	MW-1	MW-1D	MW-1D	MW-2D	MW-2D	MW-4D	MW-4D	MW-8	MW-8	MW-8D	MW-9	MW-12	MW-13	PZ-1 (removed)	PZ-2	PZ-2	PZ-2	PZ-3	PZ-3	PZ-4	PZ-4	PZ-4	PZ-5	PZ-5	PZ-5	PZ-5	PZ-6	PZ-6	PZ-7	PZ-7	PZ-8	PZ-8	PZ-9
		12/26/2018	2/4/2021	1/12/2024	12/26/2018	2/4/2021	12/26/2018	2/4/2021	12/26/2018	2/4/2021	2/4/2021	1/12/2024	2/4/2021	2/4/2021	2/4/2021	2/4/2021	1/22/2018	1/23/2018	1/2/2019	1/12/2024	1/23/2018	1/2/2019	1/23/2018	1/2/2019	1/12/2024	1/23/2018	1/2/2019	2/4/2021	1/12/2024	4/6/2021	1/12/2024	4/6/2021	1/12/2024	4/6/2021	1/12/2024	1/12/2024
TCL Volatile Organic Compounds (VOCs) - ug/L																																				
1,1-Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**50**	9.6	ND	ND	1.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7.3	49	21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11 J	ND	ND	ND	ND	ND
Carbon disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	0.62 J	0.19 J	0.24 J	ND	0.46	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	**5.6**	0.7 J	1.3	ND	ND	ND	ND	ND	ND	ND	**9.8**	1.3 J	ND	**2200**	**2100**	**37**	**600**	**330**	0.9	1.5 J	**9.2**	**6.4**	ND	**9.1 J**	ND	ND	ND	ND	ND	ND
Cyclohexane	**--**	ND	ND	ND	1.9 J	4.1	ND	ND	1.4 J	ND	ND	ND	0.6 J	ND	0.46 J	ND	0.18	0.39	ND	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	**--**	ND	ND	ND	2.7 J	3.9	ND	ND	ND	ND	ND	ND	3.7	ND	0.95 J	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**5**	ND	ND	ND	ND	ND	0.65 J	ND	2.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1 J	**220**	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	0.47 J	0.39 J	ND	ND	ND	ND	ND	ND	ND	ND	4.5	ND	**51000**	**34000**	**22**	**95**	**21**	0.66	**14**	ND	ND	ND	**17 J**	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	**31**	**11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**5**	ND	ND	ND	ND	ND	ND	1.1	0.46 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2600**	**2000**	**61**	**380**	**100**	2.3	4.2	1.7	1.4 J	ND	**11 J**	ND	ND	ND	ND	0.6 J
Vinyl chloride	**2**	ND	ND	ND	ND	ND	**4.7**	**41**	1.6	**2.3**	ND	ND	ND	ND	ND	ND	ND	**3.6**	0.43 J	ND	ND	ND	**7.7**	**160**	**62**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	**5**	ND	ND	ND	0.86 J	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**30**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L																																				
Butyl benzyl phthalate	**50**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	**50**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds 8270 (SIM) [3] - ug/L																																				
1,4 - Dioxane	**0.35**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TAL Metals - ug/L (Total) [4]																																				
Aluminum	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	**1,000**	--	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	**--**	--	126000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	**50**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	**300**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	**35,000**	--	**47800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	**300**	--	15 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	**100**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	**--**	--	5100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	**20,000**	--	**69700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Organochlorine Pesticides ug/L																																				
delta-BHC	**0.04**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-BHC(Lindane)	**0.05**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	**0.04**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	**0.03**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides ug/L																																				
Herbicides	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) ug/L																																				
Total PCBs	**0.09**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorinated Alkyl Acids - ng/L																																				
Perfluorobutanoic acid (PFBA)	**--**	--	3.14 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluoropentanoic acid (PFPeA)	**--**	--	0.54 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorohexanoic acid (PFHxA)	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluoroheptanoic acid (PFHpA)	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorooctanoic acid (PFOA)	**6.7**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorotetradecanoic acid (PFTeA)	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorobutanesulfonic Acid (PFBS)	**--**	--	0.43 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorooctanesulfonic Acid (PFOS)	**2.7**	--	0.53 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perfluorooctane Sulfonamide (PFOSA)	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	**--**	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS) and Final Ambient Water Quality Guidance Values March 2023.
3. Extraction methodology of Selective Ion Monitoring (SIM) was used for 1,4-dioxane.
4. Sample results were reported by the laboratory in milligrams per liter (mg/L) and converted to micrograms per liter (ug/L) for comparison to GWQS.

Definitions:
ND = Parameter not detected above laboratory detection limit.
NA = Not Analyzed
"--" = No GWQS available.
B = Compound was found in the blank and sample
E = Result exceeded calibration range.
EMPC = Value is estimated maximum possible concentration.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
F1= MS and/or MSD recovery exceeds control limits.

Exceeds NYSDEC Class GA GWQS

TABLE 8
SUMMARY OF RI SOIL VAPOR AND OUTDOOR AIR ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Parameter [1]	Sample Location & Sample Date				
	SV-1	SV-2	SV-3	SV-4	OA-1
	10/21/2021				
Volatile Organic Compounds (VOCs, ug/m3)					
Acetone	54 J	440	340	300 J	27
Benzene	0.76 J	ND< 6.4	ND< 3.2	ND< 3.2	ND< 0.64
Carbon Disulfide	ND< 1.6	17	ND< 7.8	ND< 7.8	4.9
Chloromethane	1.5 J	ND< 10	ND< 5.2	ND< 5.2	1.1
Dichlorodifluoromethane	2.1 J	ND< 25	ND< 12	ND< 12	2.2 J
Ethylbenzene	0.44 J	ND< 8.7	ND< 4.3	ND< 4.3	ND< 0.87
m&p-Xylene	0.99 J	ND< 35	ND< 17	ND< 17	ND< 3.5
Methyl Ethyl Ketone	4.9 J	74	61	100 J	ND< 2.9
Methylene chloride (Matrix B)	0.87 J	ND< 17	ND< 8.7	ND< 8.7	ND< 1.7
o-Xylene	0.78 J	ND< 8.7	ND< 4.3	ND< 4.3	ND< 0.87
Toluene	1.5 J	ND< 7.5	ND< 3.8	ND< 3.8	0.92
Trichloroethene (Matrix A)	0.84 J	ND< 11	ND< 5.4	ND< 5.4	ND< 1.1

Notes:
1. Only those parameters detected above the method detection limit, at a minimum of one location, are presented in this table.

Definitions:
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter. Or parameter not analyzed for.
J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

blue = Constituent monitored under NYSDOH Vapor/ Indoor Air Quality Standards - (Matrices A,B,C- Updated May 2017)

TABLE 9
SUMMARY OF RI SEDIMENT ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Parameter [1]	Water Quality Standard (ug/L)	K_{ow} [2] (log L/kg)	K_{oc} (L/kgOC)	SGV_{oc} [3] (ug/gOC)	Bulk Sediment SGV [4] (mg/kg)	Unnamed Intermittent Stream		Floor Drain
						SED-1	SED-2	SED-3
						Upstream	Downstream	Building 2
						91/7/21		
TCL Volatile Organic Compounds (VOCs) - mg/kg [5]								
Acetone	50	-0.240	0.581	0.0291	**0.00040**	ND	**0.0043 J**	ND
Chloroform	7	1.970	86.455	0.6052	**0.00841**	0.00086 J	ND	ND
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg [5]								
Acenaphthylene	--	--	--	--	**--**			
Anthracene	50	4.534	28655	1433	**19.9**	0.078 J	ND	ND
Benzo(a)anthracene	0.002	5.673	377432	0.755	**0.0105**	**0.46**	**0.13 J**	ND
Benzo(b)fluoranthene	0.002	6.266	1444635	2.89	**0.0402**	**0.85**	**0.29**	**4.5 J F2**
Benzo(k)fluoranthene	0.002	6.291	1528738	3.06	**0.0425**	**0.35**	**0.07 J**	ND
Benzo(g,h,i)perylene	--	6.507	2492648	--	**--**	0.57	0.19 J	3.2 J F2 F1
Benzo(a)pyrene	0.0012	6.107	1008001	1.21	**0.0168**	**0.52**	**0.17 J**	ND
Carbozole	--	3.590	3383	--	**--**	0.074 J	ND	ND
Chrysene	0.002	5.713	413199	0.826	**0.0115**	**0.68**	**0.23**	ND
Dibenz(a,h)anthracene	--	6.713	3973370	--	**--**	0.11 J	0.048 J	ND
Fluoranthene	50	5.084	99507	4975	**69.2**	1.5	0.44	ND
Fluorene	50	4.208	13701	685	**9.5**	0.027 J	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	6.722	4055141	8.11	**0.113**	**0.41**	**0.15 J**	ND
Phenanthrene	50	4.571	31158	1558	**21.7**	0.66	0.21	ND
Pyrene	50	4.922	68961	3448	**47.9**	1.2	0.4	ND
TAL Metals - mg/kg			**Class A [6] (Low Risk) LEL**	**Class B [6] (Moderately Contaminated) SEL**	**Class C [6] (High Risk) SEL**			
Aluminum	2000		**--**	**--**	**--**	13900	17500	8630 J
Antimony	3		**--**	**--**	**--**	ND	11.5 J	ND
Arsenic	50		**< 10**	**10 - 33**	**> 33**	5.9	**41.2 J**	6.6
Barium	2000		**--**	**--**	**--**	67.5	120 J	67.1 J
Beryllium	3		**--**	**--**	**--**	0.73	0.86	0.99
Cadmium	10		**< 1**	**1 - 5**	**> 5**	0.21 J	0.54	0.55
Calcium	--		**--**	**--**	**--**	35200 B	20100 B	90200 B
Chromium	100		**< 43**	**43 - 110**	**> 110**	23.6	**43.2**	24.7
Cobalt	5		**--**	**--**	**--**	15	30.4	5.3
Copper	200		**< 32**	**32 - 150**	**> 150**	21.9	**80.6 J**	28.5
Iron	300		**--**	**--**	**--**	30600 ^+	81200 J	20500
Lead	25		**< 36**	**36 - 130**	**> 130**	11.1	**57.1 J**	**42.2**
Magnesium	35000		**--**	**--**	**--**	5990	8220	13200
Manganese	600		**--**	**--**	**--**	867	1020	479
Nickel	100		**< 23**	**23 - 49**	**> 49**	**41.3**	**94.8 J**	**31.5**
Potassium	--		**--**	**--**	**--**	2370	2750	1950 J
Selenium	10		**--**	**--**	**--**	ND	0.56 J	ND
Sodium	20000		**--**	**--**	**--**	151 JB	167 JB	271 B
Vanadium	14		**--**	**--**	**--**	22.7	24.9	24.5
Zinc	5,000		**< 120**	**120 - 460**	**> 460**	110	**181 J**	**159 J**
Mercury	0.7		**< 0.2**	**0.2 - 1**	**> 1**	0.013 J	0.03	0.15
Organochlorine Pesticides - mg/kg								
Pesticides						ND	ND	ND
Herbicides - mg/kg								
Herbicides						ND	ND	ND
Polychlorinated Biphenyls (PCBs) - mg/kg								
Total PCBs						ND	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values from Table 7. Sediment Guidance Values for PAHs (USEPA 2003)
3. Sediment guidance value (SGV) per NYSDEC Screening and Assessment of Contaminated Sediment (June 24, 2014).
4. Calculated based on estimated TOC for a Class C stream.
5. Sample results reported by the laboratory in ug/kg were converted to mg/kg for comparison to SGVs/Guidance Values.
6. Values from Table 5. Freshwater Sediment Guidance Values. NYSDEC June 24, 2014 Guidance.

Definitions:

K_{oc} = Organic carbon partitioning coefficient: measures conc. of a contaminant that adsorbs to sediment organic carbon content / conc. dissolved in water after mixing.
K_{ow} = n-octanol water partitioning coefficient: ratio describing the partitioning of a nonpolar organic compound between water and octanol.
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
OC = organic carbon
"--" = No value available.
ND = Parameter not detected above laboratory detection limit.
B = Analyte was detected in the associated blank as well as in the sample.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.

BOLD	= Result exceeds calculated bulk sediment SGV
BOLD	= Result indicates Class B Sediments (exceeds Freshwater Sediment Class A Guidance Values)
BOLD	= Result indicates Class C Sediments (exceeds Freshwater Sediment Class B Guidance Value)

TABLE 10
SUMMARY OF RI SURFACE WATER ANALYTICAL DATA
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Parameter [1]	NYSDEC Class C SWQS[2,3] (ug/L)	Surface Water Location	
		SW-1	SW-2
		9/17/2021	
TCL Volatile Organic Compounds (VOCs) - ug/L			
Bromodichloromethane	--	1.6	1.2
Chloroform	--	4.3 J-	2.7 J
Dibromochloromethane	--	0.61 J	ND
TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L			
Total SVOCs	--	ND	ND
TAL Metals - ug/L (Total) [4]			
Aluminum	**100**	3.8 F1	0.17 J
Barium	--	0.048	0.029
Calcium	--	63.9 B	55.3 B
Chromium[5]	**9.8**	0.01	0.0051
Cobalt	**5**	0.0019 J	ND
Copper[5]	**0.4**	0.005 J	0.0025 J
Iron	**300**	3.7 F1	0.11
Lead[5]	**0.03**	0.0049 J	ND
Magnesium	--	8.2	7.2
Manganese	--	0.2 J	0.017 B
Nickel[5]	**3.4**	0.0057 J	ND
Potassium	--	3.6	2.6
Sodium	--	65	67.5
Vanadium	**14**	0.011	0.0041 J
Zinc[5]	**3.6**	0.016 B	0.0056 JB
Organochlorine Pesticides ug/L			
Pesticides	--	ND	ND
Herbicides ug/L			
Herbicides	--	ND	ND
Polychlorinated Biphenyls (PCBs) ug/L			
Total PCBs	--	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class C Surface Water Quality Standards (SWQS).
3. The unnamed, intermittant stream that runs through the 3077 Union Road Site is listed as a Class C water body according to NYSDEC Environmental Resource Map
4. Sample results were reported by the laboratory in milligrams per liter (mg/L) and converted to micrograms per liter (ug/L) for comparison to GWQS.
5. SWQS calculated based upon an assumed hardness on the Mohs Hardness Scale.

Definitions:

ND = Parameter not detected above laboratory detection limit.
NA = Not Analyzed
"--" = No GWQS available.
B = Compound was found in the blank and sample
E = Result exceeded calibration range.
I = Value is EMPC (estimated maximum possible concentration).
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
F1= MS and/or MSD recovery exceeds control limits.

Exceeds NYSDEC Class C SWQS

TABLE 11
STANDARDS, CRITERIA, AND GUIDANCE (SCGs)
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Citation	Title	Regulatory Agency
General		
29CFR 1910.120	Hazardous Waste Operations and Emergency Response	US Dept. of Labor, OSHA
29CFR 1910.1000	OSHA General Industry Air Contaminants Standard	US Dept. of Labor, OSHA
29CFR 1926	Safety and Health Regulations for Construction	US Dept. of Labor, OSHA
Not Applicable	Analytical Services Protocol	NYSDEC
6NYCRR Part 608	Use and Protection of Waters	NYSDEC
6NYCRR Part 621	Uniform Procedures Regulations	NYSDEC
6NYCRR Parts 750-757	State Pollutant Discharge Elimination System	NYSDEC
Not Applicable	New York State Stormwater Management Design Manual	NYSDEC
Section 404	Clean Water Act	USACE
Soil/Fill		
6NYCRR Part 375	Environmental Remediation Programs	NYSDEC
DEC Policy CP-51	Soil Cleanup Guidance	NYSDEC
Groundwater		
6NYCRR Part 700-705	Surface Water and Ground Water Classification Standards	NYSDEC
TOGS 1.1.1	Ambient Water Quality Standards and Guidance Values	NYSDEC
TOGS 2.1.3	Primary and Principal Aquifer	NYSDEC
Air		
DER-10 Appendix 1B	Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites	NYSDEC
NYSDOH, October 2006	Final - Guidance for Evaluating Soil Vapor Intrusion in the State of NY	NYSDOH
Solid Waste		
6NYCRR 360	Solid Waste Management Facilities	NYSDEC
6NYCRR 364	Waste Transporters	NYSDEC

TABLE 12
COST ESTIMATE FOR UNRESTRICTED USE (TRACK 1) ALTERNATIVE
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Item	Quantity	Units	Unit Cost	Total Cost
Impacted Soil/Fill Removal				
Contaminated Soil Removal - Hazardous	200	T	$ 20	$ 4,000
Contaminated Soil Removal - Non-Hazardous	230000	T	$ 5.50	$ 1,265,000
Hazardous Transportation & Disposal at RCRA Title C	200	T	$ 650	$ 130,000
Non-Hazardous Transporation & Disposal at RCRA Title D	230000	T	$ 42.55	$ 9,786,500
Concrete Disposal	10	loads	$ 500.00	$ 5,000
Asphalt Disposal	10	loads	$ 500.00	$ 5,000
Post-Excavation Soil Samples (VOCs, SVOCs, Metals plus QA/QC)(3-day)	1,200	EA	$ 432.00	$ 518,400
Waste Characterization Samples[1]	250	EA	$ 821.00	$ 205,250
Street Sweeping and Maintenance (12 months)	360	DAY	$ 575.00	$ 207,000
GWTS Mobilization, Permitting, Set-up-Operation, Testing, Cleaning, Demobilization	12	MO	$ 15,000	$ 180,000
Clearing/Grubbing, Erosion Controls, etc.	15	AC	$ 7,500	$ 112,500
				$ 12,418,650
Groundwater Amendment Injections				
Remediation Services- In-Situ Groundwater Treatment- PZ-3 Area	1	EST	$ 10,000	$ 10,000
Remedial Contractor	1	DY	$ 2,200	$ 2,200
Remediation Fieldwork Professional Services- Post-Treatment Groundwater Monitoring	3	Events	$ 5,000	$ 15,000
				$ 27,200
Site Grading, Cover Placement, Drainage and Restoration				
Site Work	6	MO	$ 22,500.00	$ 135,000
Imported Soil and/or Gravel	300,000	T	$ 20.00	$ 6,000,000
				$ 6,135,000
Installation of ASD System				
System Material and Installation	1	Est	$ 10,000.00	$ 10,000
				$ 10,000
Subotal Capital Cost				**$ 18,590,850**
Mobilization/Demobilization/Engineering/Reporting/Contingency (35%)				$ 6,506,798
Total Capital Cost				**$ 25,098,000**
Operation, Maintenance & Monitoring Costs				
Groundwater Monitoring	7	Events	$ 6,000	$ 42,000
Annual Certification	5	Yr	$ 2,000	$ 10,000
Total OM&M Cost				**$ 52,000**
Total Capital Cost				**$ 25,150,000**

Notes:
1. Landfill generally requires 1 sample per 1,000 tons of each soil type.

TABLE 13
COST ESTIMATE FOR COMMERCIAL USE (TRACK 4) ALTERNATIVE FOR WESTERN PORTION AND RESIDENTIAL (TRACK 2) ALTERNATIVE FOR EASTERN PORTION
REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURE/ALTERNATIVE ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Item	Quantity	Units	Unit Cost	Total Cost
Impacted Soil/Fill Removal (Eastern Track 2 Area)				
Remove Soil, Backfill Management, Oversight, Sampling, CAMP	3	DY	$ 1,700	$ 5,100
Contaminated Soil Loading	3	DY	$ 1,500	$ 4,500
Non-Haz Transporation and Disposal to Republic Facility (MW-12)	373	T	$ 45	$ 16,800
Non-Haz Transporation and Disposal to Republic Facility (MW-13)	267	T	$ 45	$ 12,000
Non-Haz Transporation and Disposal to Republic Facility (TP-30)	320	T	$ 45	$ 14,400
Grade, Backfill of On-Site Soil, Compact	3	DY	$ 1,500	$ 4,500
Post-Excavation Soil Samples (VOCs, SVOCs, Metals plus QA/QC)(3-day)	8	EA	$ 700	$ 5,600
Waste Characterization Samples	3	EA	$ 900	$ 2,700
Street Sweeping and Maintenance	3	DY	$ 575	$ 1,725
				$ 67,325
Impacted Soil Treatrment - In-Situ Air Sparge/Soil Vapor Extraction System (Western Track 4 Area)				
Pilot Study	1	EST	$ 20,000	$ 20,000
Remedial Design and Specifications	1	EST	$ 10,000	$ 10,000
AS/SVE System Mobilization and Construction				
AS/SVE Wells Drilling	1	EST	$ 20,000	$ 20,000
Force Main	1	EST	$ 30,000	$ 30,000
AS/SVE System, Biofilter, Electrical	1	EST	$ 30,000	$ 30,000
Document, Monitoring, Sampling, CAMP	10	DY	$ 1,700	$ 17,000
Piping/materials, construction fencing	1	EST	$ 10,000	$ 10,000
AS/SVE System rental	12	MO	$ 5,000	$ 60,000
Carbon Treatment	1000	lbs	$ 3	$ 3,000
Electrical Hook-up	1	LS	$ 7,500	$ 7,500
Field Supplies, Sampling Supplies, Expenses	1	LS	$ 1,000	$ 1,000
OM&M (up to 12 months) (including electrial costs)	12	MO	$ 9,000	$ 108,000
Analytical (soil vapor and soil TCLP post treatment)	1	EST	$ 3,000	$ 3,000
SVE System deconstruct, waste disposal, demobilization	1	EST	$ 20,000	$ 20,000
				$ 339,500
Site Grading, Cover Placement, Drainage and Restoration				
Site Work	1	EST	$ 11,650	$ 11,650
Imported Soil/Gravel	2,547	T	$ 25	$ 63,667
Demarcation Layer	38,200	SF	$ 1	$ 19,100
Landscaping	1	EST	$ 1,000	$ 1,000
				$ 95,417
Installation of ASD System				
System Material and Installation	1	Est	$ 20,000.00	$ 20,000
				$ 20,000
Subotal Capital Cost				**$ 522,242**
Mobilization/Demobilization/Engineering/Health and Safety/Contingency (35%)				$ 182,785
Total Capital Cost				**$ 706,000**
Operation, Maintenance & Monitoring Costs (Assumed 30-Years)				
Groundwater Monitoring	32	Events	$ 6,000	$ 192,000
Annual Certification	30	Yr	$ 2,000	$ 60,000
Total OM&M Cost				**$ 252,000**
Total 30-Year Cost				**$ 958,000**

TABLE 14
COMPARISON OF REMEDIAL ALTERNATIVES
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT
3077 UNION ROAD SITE
BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

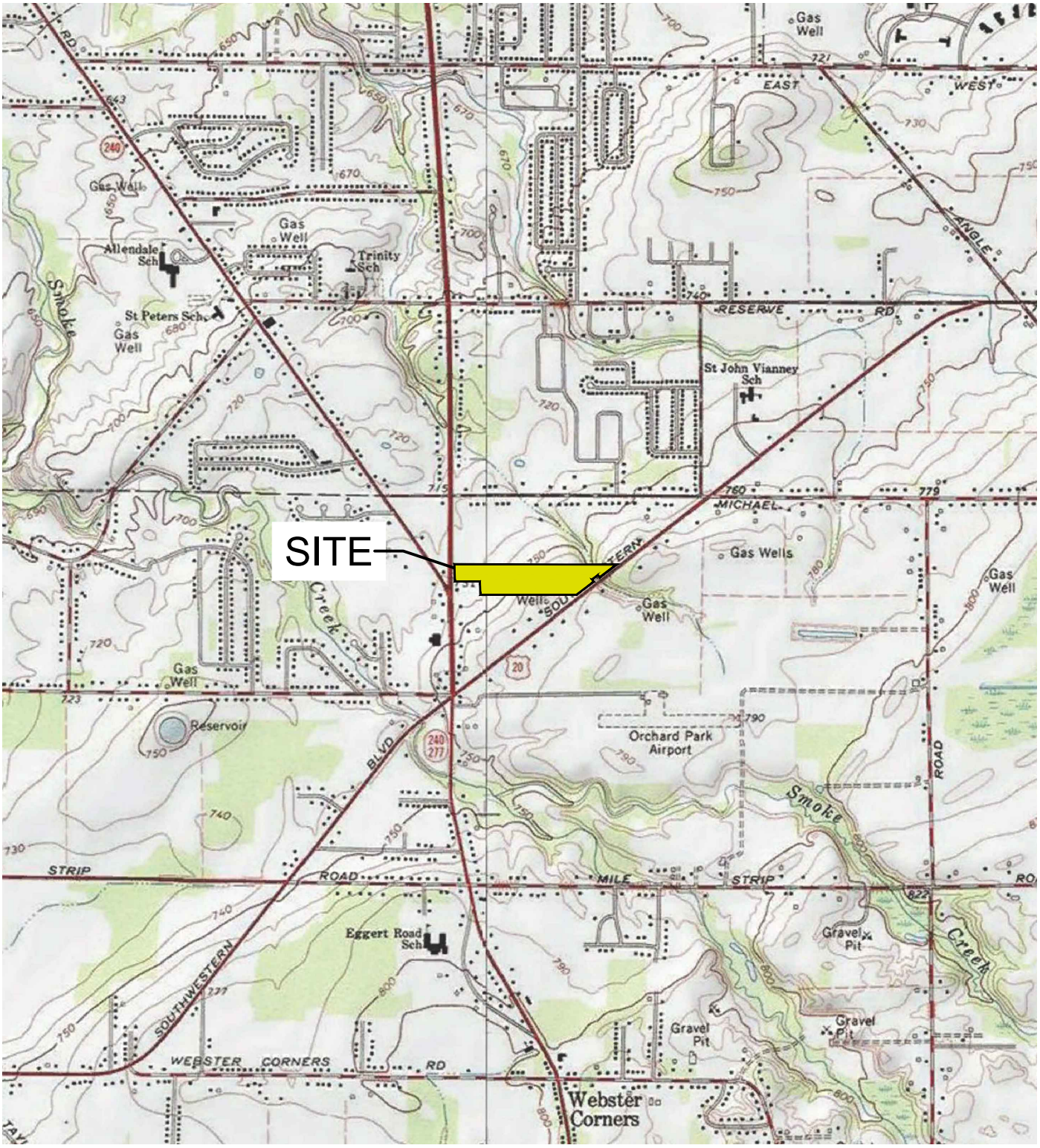
Site No. and Alternative	NYSDEC DER-10 Evaluation Criteria								
	1. Overall	2. SCGs	3. Eff & Perm	4. Reduction	5. Imp & Eff	6. Implement	7. Cost Eff	8. Community	9. Land Use
Alternative 1 - No Further Action							$0	TBE	
Alternative 2 - Track 1 Unrestricted Use Cleanup	✓	✓	✓	✓			$25,150,000	TBE	✓
Alternative 3 - Track 4 Commercial Use (Western Portion) and Track 2 Residential Use (Eastern Portion)	✓	✓	✓	✓	✓	✓	$958,000	TBE	✓

Notes:

1. Overall Protectiveness of Public Health and the Environment
2. Compliance with Standards, Criteria, and Guidance (SCGs)
3. Long-Term Effectiveness and Permanence
4. Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment
5. Short-Term Impacts and Effectiveness
6. Implementability (Technical and Administrative)
7. Cost Effectiveness
8. Community Acceptance
9. Land Use

✓ = Alternative satisfies criterion
TBE = To be evaluated following public comment period

FIGURES



Title:

SITE LOCATION AND VICINITY MAP

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

Prepared for:

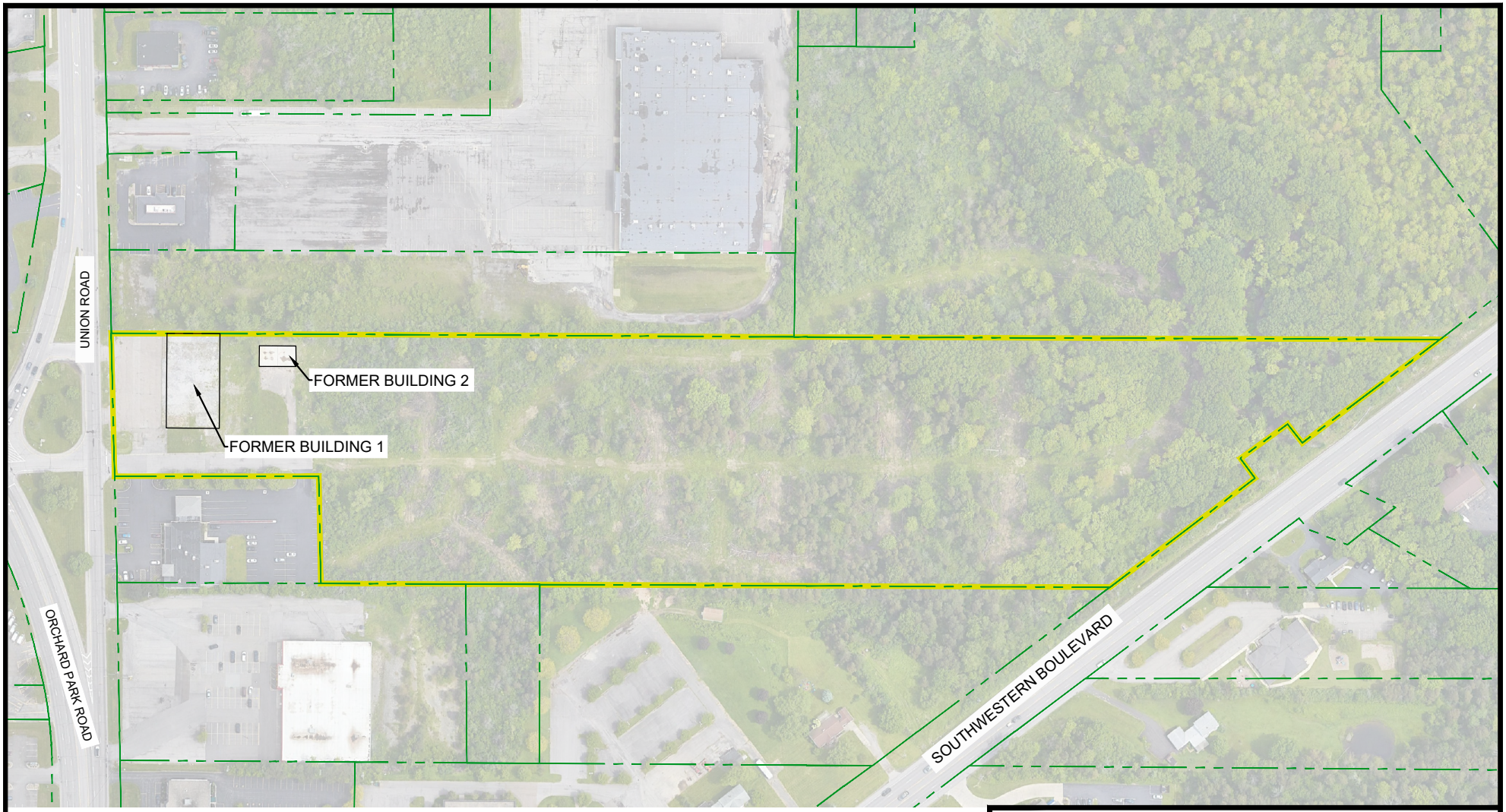
570 DAB 4, LLC

ROUX

Compiled by:	Date: DECEMBER 2024	FIGURE
Prepared by: CMC	Scale: AS SHOWN	
Project Mgr: BWM	Project: 3979.0009B000	1
File: FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 2; SITE PLAN (AERIAL).DWG



LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FORMER BUILDING OUTLINE

NOTES:
1. IMAGE TAKEN FROM GOOGLE EARTH 2022.

N

250' 0 250'

Title:

SITE PLAN (AERIAL)

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

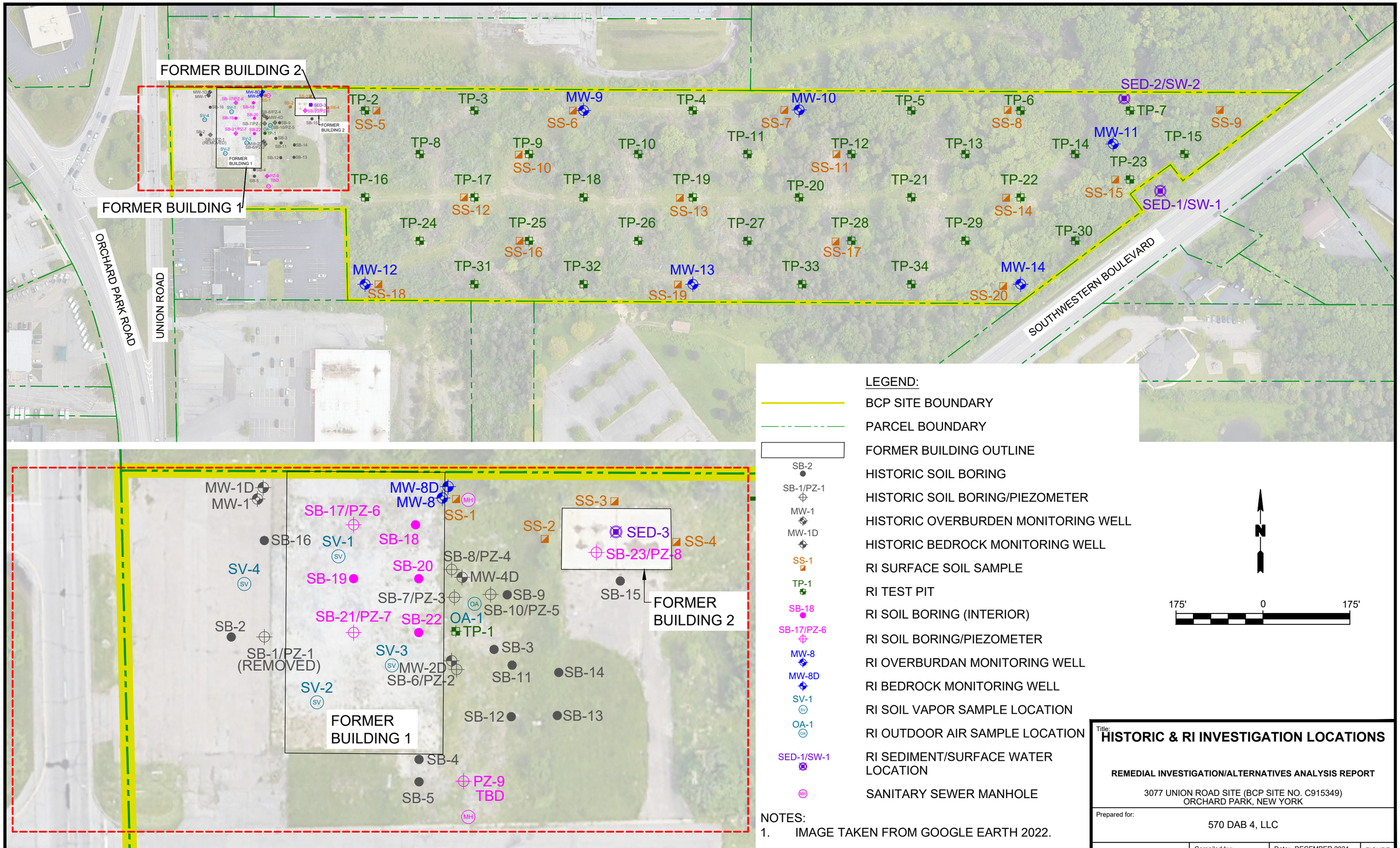
3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: DECEMBER 2024
Prepared by: CMC	Scale: AS SHOWN
Project Mgr: BWM	Project: 3979.0009B000
File: FIGURE 2; SITE PLAN (AERIAL).DWG	

FIGURE
2



LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FORMER BUILDING OUTLINE
- SB-2 — HISTORIC SOIL BORING
- SB-1/PZ-1 — HISTORIC SOIL BORING/PIEZOMETER
- MW-1 — HISTORIC OVERBURDEN MONITORING WELL
- MW-1D — HISTORIC BEDROCK MONITORING WELL
- SS-1 — RI SURFACE SOIL SAMPLE
- TP-1 — RI TEST PIT
- SB-18 — RI SOIL BORING (INTERIOR)
- SB-17/PZ-6 — RI SOIL BORING/PIEZOMETER
- MW-8 — RI OVERBURDAN MONITORING WELL
- MW-8D — RI BEDROCK MONITORING WELL
- SV-1 — RI SOIL VAPOR SAMPLE LOCATION
- OA-1 — RI OUTDOOR AIR SAMPLE LOCATION
- SED-1/SW-1 — RI SEDIMENT/SURFACE WATER LOCATION
- MH — SANITARY SEWER MANHOLE

N

175' 0 175'

NOTES:
1. IMAGE TAKEN FROM GOOGLE EARTH 2022.

Title:
HISTORIC & RI INVESTIGATION LOCATIONS

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: DECEMBER 2024	FIGURE
Prepared by: CNK-CMC	Scale: AS SHOWN	3
Project Mgr: BWM	Project: XX	
File: FIGURE 3; HISTORIC & RI INVESTIGATION LOCATIONS.DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 3; HISTORIC & RI INVESTIGATION LOCATIONS.DWG

MW-8/8D (4-5 FT)	1/28/2021
PARAMETER	MG/KG
CHROMIUM	31
NICKEL	52.6

SS-2	6/14/2022
PARAMETER	MG/KG
CHROMIUM	50.8
NICKEL	49.5
ZINC	316
4,4'-DDD	0.0034
PFOS	2.3

SS-3	6/14/2022
PARAMETER	MG/KG
CHROMIUM	67.9
COPPER	62.1
NICKEL	63.7
ZINC	135
PFOS	1.5

SS-1	6/14/2022
PARAMETER	MG/KG
CHROMIUM	45.1
NICKEL	45.3
ZINC	139
PFOS	2.4

SS-4	6/14/2022
PARAMETER	MG/KG
CHROMIUM	54.6
LEAD	149
ZINC	259

SB-1 (10-12 FT)	1/22/2018
PARAMETER	MG/KG
METHYLENE CHLORIDE	0.1

SB-8 (4-6 FT)	1/22/2018
PARAMETER	MG/KG
CIS-1,2-DICHLOROETHENE	0.260
METHYLENE CHLORIDE	0.110
TRICHLOROETHENE	0.610

TP-1 (1.5-3 FT)	9/15/2021
PARAMETER	MG/KG
NICKEL	39.7

TCLP RESULTS	
SB-7 (4-6 FT)	1/22/2018
PARAMETER	MG/L
TETRACHLOROETHENE	2.6
TRICHLOROETHENE	0.0081

SB-7 (4-6 FT)	1/22/2018
PARAMETER	MG/KG
METHYLENE CHLORIDE	2
TETRACHLOROETHENE	120
SB-7 (6-8 FT)	1/22/2018
PARAMETER	MG/KG
CIS-1,2-DICHLOROETHENE	0.280
METHYLENE CHLORIDE	0.190
TETRACHLORIDE	19
TRICHLOROETHENE	0.940

SB-11 (2-4 FT)	1/22/2018
PARAMETER	MG/KG
METHYLENE CHLORIDE	0.2
TETRACHLOROETHENE	13

SB-3 (4-4.5 FT)	1/22/2018
PARAMETER	MG/KG
METHYLENE CHLORIDE	0.1
TETRACHLOROETHENE	44
TRICHLOROETHENE	1.5

MW-1D
MW-1
MW-8
MW-8D
SS-1
SS-3
SS-2
SS-4
SB-16
SB-17/PZ-6
SB-18
SB-8/PZ-4
MW-4D
SB-20
SB-19
SB-23/PZ-8
SB-15
BUILDING 2
SB-7/PZ-3
SB-9
SB-10/PZ-5
SB-21/PZ-7
SB-2
SB-1/PZ-1
(REMOVED)
SB-22
TP-1
MW-2D
SB-3
SB-11
SB-14
SB-6/PZ-2
SB-13
SB-12
BUILDING 1
SB-4
SB-5

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SB-2 — HISTORIC SOIL BORING
- SB-1/PZ-1 — HISTORIC SOIL BORING/PIEZOMETER
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- SS-1 — RI SURFACE SOIL SAMPLE
- TP-1 — RI TEST PIT
- SB-18 — RI SOIL BORING (INTERIOR)
- SB-17/PZ-6 — RI SOIL BORING/PIEZOMETER
- MW-8 — RI OVERBURDAN MONITORING WELL
- MW-8D — RI BEDROCK MONITORING WELL
- EXCEEDS UNRESTRICTED SCOs
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs
- EXCEEDS COMMERCIAL SCOs
- EXCEEDS INDUSTRIAL SCOs
- EXCEEDS CHARACTERISTIC HAZARDOUS WASTE THRESHOLD

NOTES:

1. IMAGE TAKEN FROM GOOGLE EARTH 2022.
2. TOTAL RESULTS COMPARED TO 6 NYCRR PART 375 SOIL CLEANUP OBJECTIVES (SCOs).
3. TCLP RESULTS COMPARED TO HAZARDOUS REGULATORY LEVELS PER 40 CFR 261.

N

50' 0 50'

Title:
HISTORIC & RI SOIL INVESTIGATION LOCATIONS AND EXCEEDANCES (WESTERN PORTION)

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

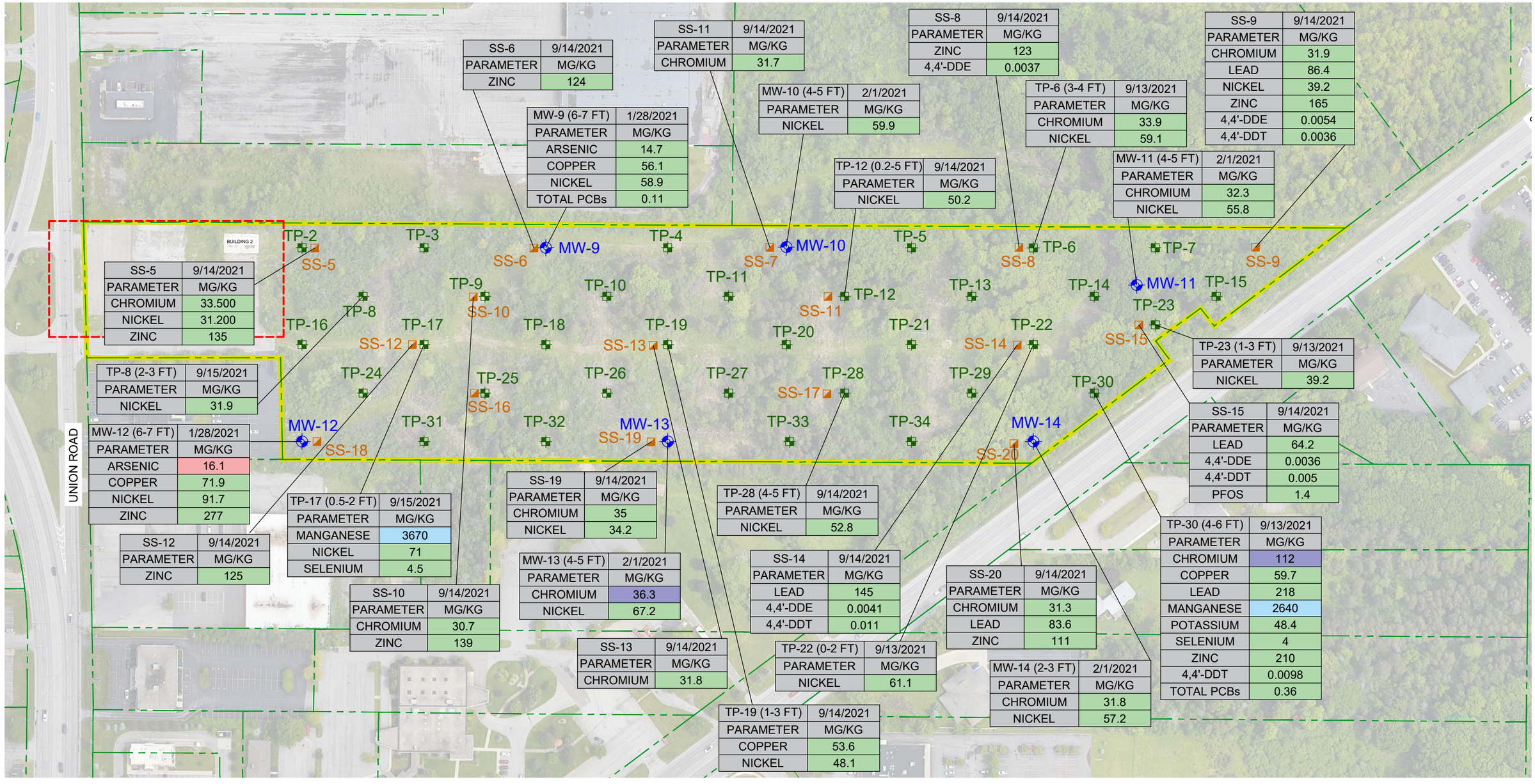
3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD, NEW YORK

Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: FEBRUARY 2025	FIGURE
Prepared by: CMC	Scale: AS SHOWN	4A
Project Mgr: CMC	Project:	
File: FIGURE 4A; HISTORIC & RI SOIL INVESTIGATION LOCATIONS AND EXCEEDANCES (WESTERN PORTION).DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AA\RI\FIGURE 4A; HISTORIC & RI SOIL INVESTIGATION LOCATIONS AND EXCEEDANCES (WESTERN PORTION).DWG



SS-5	9/14/2021
PARAMETER	MG/KG
CHROMIUM	33.500
NICKEL	31.200
ZINC	135

TP-8 (2-3 FT)	9/15/2021
PARAMETER	MG/KG
NICKEL	31.9

MW-12 (6-7 FT)	1/28/2021
PARAMETER	MG/KG
ARSENIC	16.1
COPPER	71.9
NICKEL	91.7
ZINC	277

SS-12	9/14/2021
PARAMETER	MG/KG
ZINC	125

TP-17 (0.5-2 FT)	9/15/2021
PARAMETER	MG/KG
MANGANESE	3670
NICKEL	71
SELENIUM	4.5

SS-10	9/14/2021
PARAMETER	MG/KG
CHROMIUM	30.7
ZINC	139

SS-6	9/14/2021
PARAMETER	MG/KG
ZINC	124

MW-9 (6-7 FT)	1/28/2021
PARAMETER	MG/KG
ARSENIC	14.7
COPPER	56.1
NICKEL	58.9
TOTAL PCBs	0.11

SS-19	9/14/2021
PARAMETER	MG/KG
CHROMIUM	35
NICKEL	34.2

MW-13 (4-5 FT)	2/1/2021
PARAMETER	MG/KG
CHROMIUM	36.3
NICKEL	67.2

SS-13	9/14/2021
PARAMETER	MG/KG
CHROMIUM	31.8

SS-11	9/14/2021
PARAMETER	MG/KG
CHROMIUM	31.7

MW-10 (4-5 FT)	2/1/2021
PARAMETER	MG/KG
NICKEL	59.9

TP-12 (0.2-5 FT)	9/14/2021
PARAMETER	MG/KG
NICKEL	50.2

TP-28 (4-5 FT)	9/14/2021
PARAMETER	MG/KG
NICKEL	52.8

SS-14	9/14/2021
PARAMETER	MG/KG
LEAD	145
4,4'-DDE	0.0041
4,4'-DDT	0.011

TP-22 (0-2 FT)	9/13/2021
PARAMETER	MG/KG
NICKEL	61.1

TP-19 (1-3 FT)	9/14/2021
PARAMETER	MG/KG
COPPER	53.6
NICKEL	48.1

SS-8	9/14/2021
PARAMETER	MG/KG
ZINC	123
4,4'-DDE	0.0037

TP-6 (3-4 FT)	9/13/2021
PARAMETER	MG/KG
CHROMIUM	33.9
NICKEL	59.1

SS-9	9/14/2021
PARAMETER	MG/KG
CHROMIUM	31.9
LEAD	86.4
NICKEL	39.2
ZINC	165
4,4'-DDE	0.0054
4,4'-DDT	0.0036

MW-11 (4-5 FT)	2/1/2021
PARAMETER	MG/KG
CHROMIUM	32.3
NICKEL	55.8

SS-20	9/14/2021
PARAMETER	MG/KG
CHROMIUM	31.3
LEAD	83.6
ZINC	111

MW-14 (2-3 FT)	2/1/2021
PARAMETER	MG/KG
CHROMIUM	31.8
NICKEL	57.2

TP-23 (1-3 FT)	9/13/2021
PARAMETER	MG/KG
NICKEL	39.2

SS-15	9/14/2021
PARAMETER	MG/KG
LEAD	64.2
4,4'-DDE	0.0036
4,4'-DDT	0.005
PFOS	1.4

TP-30 (4-6 FT)	9/13/2021
PARAMETER	MG/KG
CHROMIUM	112
COPPER	59.7
LEAD	218
MANGANESE	2640
POTASSIUM	48.4
SELENIUM	4
ZINC	210
4,4'-DDT	0.0098
TOTAL PCBs	0.36

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SS-1 — RI SURFACE SOIL SAMPLE
- TP-1 — RI TEST PIT
- MW-8 — RI OVERBURDAN MONITORING WELL

- EXCEEDS UNRESTRICTED SCOs
- EXCEEDS RESIDENTIAL SCOs
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs
- EXCEEDS COMMERCIAL SCOs
- EXCEEDS INDUSTRIAL SCOs

NOTES:

1. IMAGE TAKEN FROM GOOGLE EARTH 2022.
2. RESULTS COMPARED TO 6 NYCRR PART 375 SOIL CLEANUP OBJECTIVES (SCOs).

175' 0 175' N

Title:
RI SOIL INVESTIGATION LOCATIONS AND EXCEEDANCES (EASTERN PORTION)

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: FEBRUARY 2025	FIGURE
Prepared by: CMC	Scale: AS SHOWN	
Project Mgr: BWM	Project: 3979.0009B000	4B
File: FIGURE 4B; RI SOIL INVESTIGATION LOCATIONS AND EXCEEDANCES (EASTERN PORTION).DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 4B; RI SOIL INVESTIGATION LOCATIONS AND EXCEEDANCES (EASTERN PORTION).DWG

MW-8D	2/4/2021
PARAMETER	UG/L
IRON	4200
MAGNESIUM	28300
SODIUM	160000

PZ-4	1/23/2018	1/2/2019	2/4/2021	1/12/2024
PARAMETER	UG/L	UG/L	UG/L	UG/L
CIS-1,2-DICHLOROETHENE	37	600	770	330
TETRACHLOROETHENE	22	95	240	21
TRANS-1,2-DICHLOROETHENE	3	31	46	11
TRICHLOROETHENE	61	380	920	100
VINYL CHLORIDE	7.7	160	130	62

MW-8	2/4/2021
PARAMETER	UG/L
IRON	470
MAGNESIUM	61500
SODIUM	145000

MW-4D	12/26/2018	2/4/2021
PARAMETER	UG/L	UG/L
VINYL CHLORIDE	1.6	2.3

MW-1D	12/26/2018	2/4/2021
PARAMETER	UG/L	UG/L
MAGNESIUM	--	40000
SODIUM	--	183000

MW-1	12/26/2018	2/4/2021
PARAMETER	UG/L	UG/L
MAGNESIUM	--	47800
SODIUM	--	69700

PZ-6	1/12/2024
PARAMETER	UG/L
CIS-1,2-DICHLOROETHENE	9.1
TETRACHLOROETHENE	17
TRICHLOROETHENE	11

PZ-3	1/23/2018	1/2/2019	2/4/2021
PARAMETER	UG/L	UG/L	UG/L
CIS-1,2-DICHLOROETHENE	2200	2100	1700
METHYLENE CHLORIDE	220	ND	ND
TETRACHLOROETHENE	51000	34000	25000
TRICHLOROETHENE	2600	2000	1600

MW-1D
MW-1
MW-8
MW-8D
SB-17/PZ-6
SB-18
SB-8/PZ-4
SB-19
SB-20
MW-4D
SB-7/PZ-3
SB-10/PZ-5
SB-21/PZ-7
SB-22
MW-2D
SB-6/PZ-2
BUILDING 2
SB-23/PZ-8
BUILDING 1

PZ-5	1/23/2018	1/2/2019	2/4/2021	1/12/2024
PARAMETER	UG/L	UG/L	UG/L	UG/L
ACETONE	3.2	54	5.8	ND
CIS-1,2-DICHLOROETHENE	0.9	1.5	9.2	6.4
TETRACHLOROETHENE	0.66	14	ND	1.4

PZ-2	1/23/2018	1/2/2019	2/4/2021
PARAMETER	UG/L	UG/L	UG/L
CIS-1,2-DICHLOROETHENE	9.8	1.3	0.85
TETRACHLOROETHENE	ND	4.5	16
VINYL CHLORIDE	3.6	0.43	ND
XYLENES, TOTAL	30	ND	ND

MW-2D	12/26/2018	2/4/2021
PARAMETER	UG/L	UG/L
CIS-1,2-DICHLOROETHENE	ND	5.6
VINYL CHLORIDE	4.7	41

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SB-1/PZ-1 — HISTORIC SOIL BORING/PIEZOMETER
- MW-1 — HISTORIC OVERBURDEN MONITORING WELL
- MW-1D — HISTORIC BEDROCK MONITORING WELL
- SB-17/PZ-6 — RI SOIL BORING/PIEZOMETER
- SB-18 — RI SOIL BORING (INTERIOR)
- MW-8 — RI OVERBURDAN MONITORING WELL
- MW-8D — RI BEDROCK MONITORING WELL
- EXCEEDS GWQS/GV

NOTES:

1. IMAGE TAKEN FROM GOOGLE EARTH 2022.
2. RESULTS COMPARED TO NSYDEC TOGS 1.1.1 GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES

N

50' 0 50'

Title:
HISTORIC & RI GROUNDWATER INVESTIGATION LOCATIONS AND EXCEEDANCES (WESTERN PORTION)

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

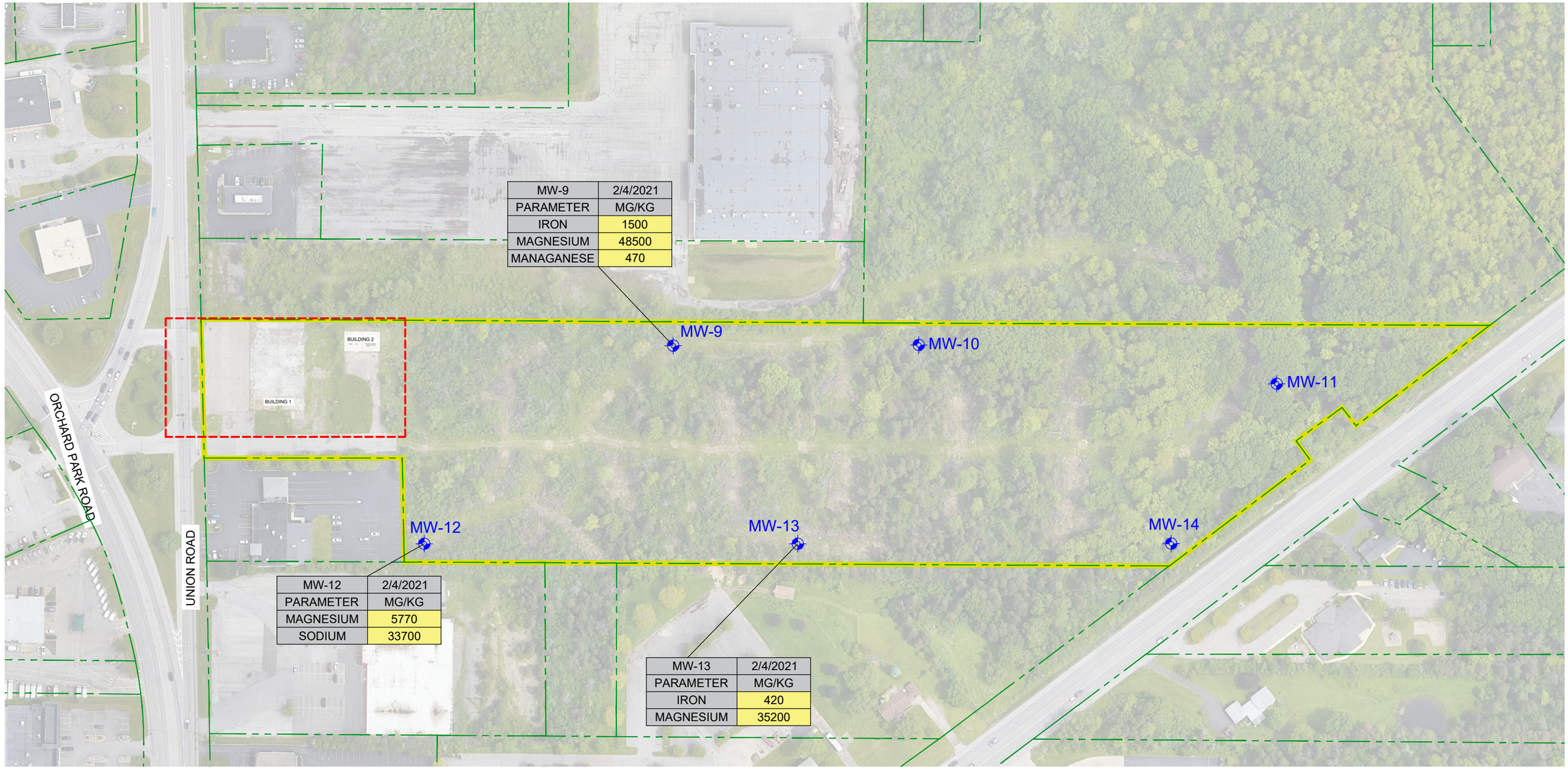
Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: FEBRUARY 2025
Prepared by: CMC	Scale: AS SHOWN
Project Mgr: BWM	Project: 3979.0009B000
File: FIGURE 5A; HISTORIC & RI GROUNDWATER INVESTIGATION LOCATIONS AND EXCEEDANCES (WESTERN PORTION).DWG	

FIGURE **5A**

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AA\RI\FIGURE 5A; HISTORIC & RI GROUNDWATER INVESTIGATION LOCATIONS AND EXCEEDANCES (WESTERN PORTION).DWG



MW-9	2/4/2021
PARAMETER	MG/KG
IRON	1500
MAGNESIUM	48500
MANAGANESE	470

MW-12	2/4/2021
PARAMETER	MG/KG
MAGNESIUM	5770
SODIUM	33700

MW-13	2/4/2021
PARAMETER	MG/KG
IRON	420
MAGNESIUM	35200

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- MW-8 — RI OVERBURDAN MONITORING WELL
- EXCEEDS GWQS/GV

NOTES:

1. IMAGE TAKEN FROM GOOGLE EARTH 2022.
2. RESULTS COMPARED TO NYSDEC TOGS 1.1.1 GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES

N

175' 0 175'

Title:
RI GROUNDWATER INVESTIGATION LOCATIONS AND EXCEEDANCES (EASTERN PORTION)

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

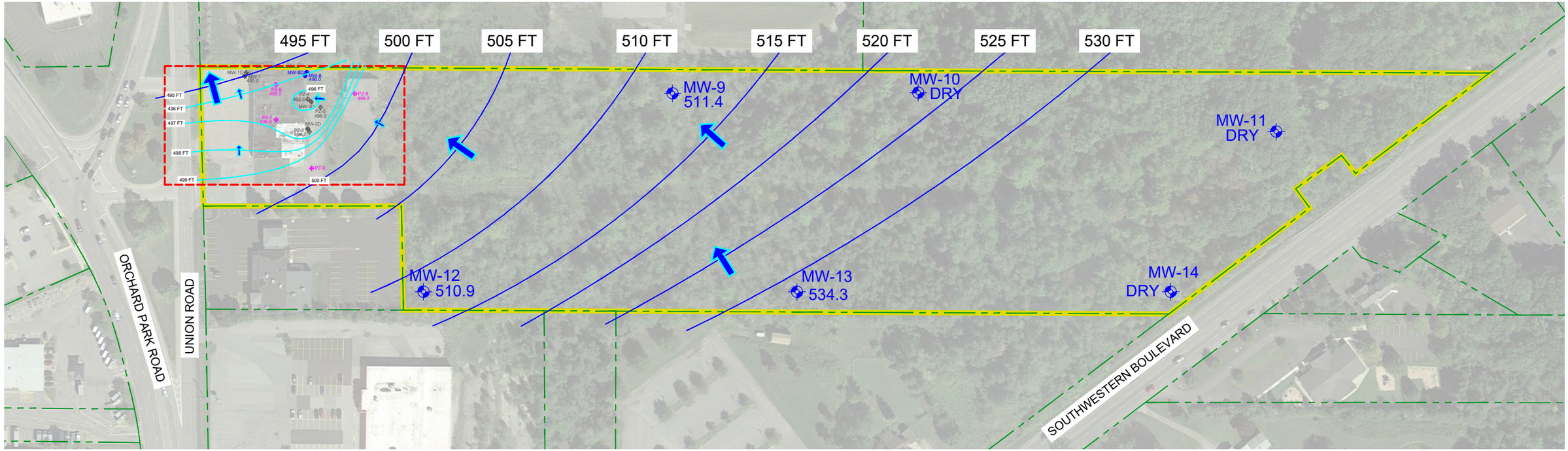
3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

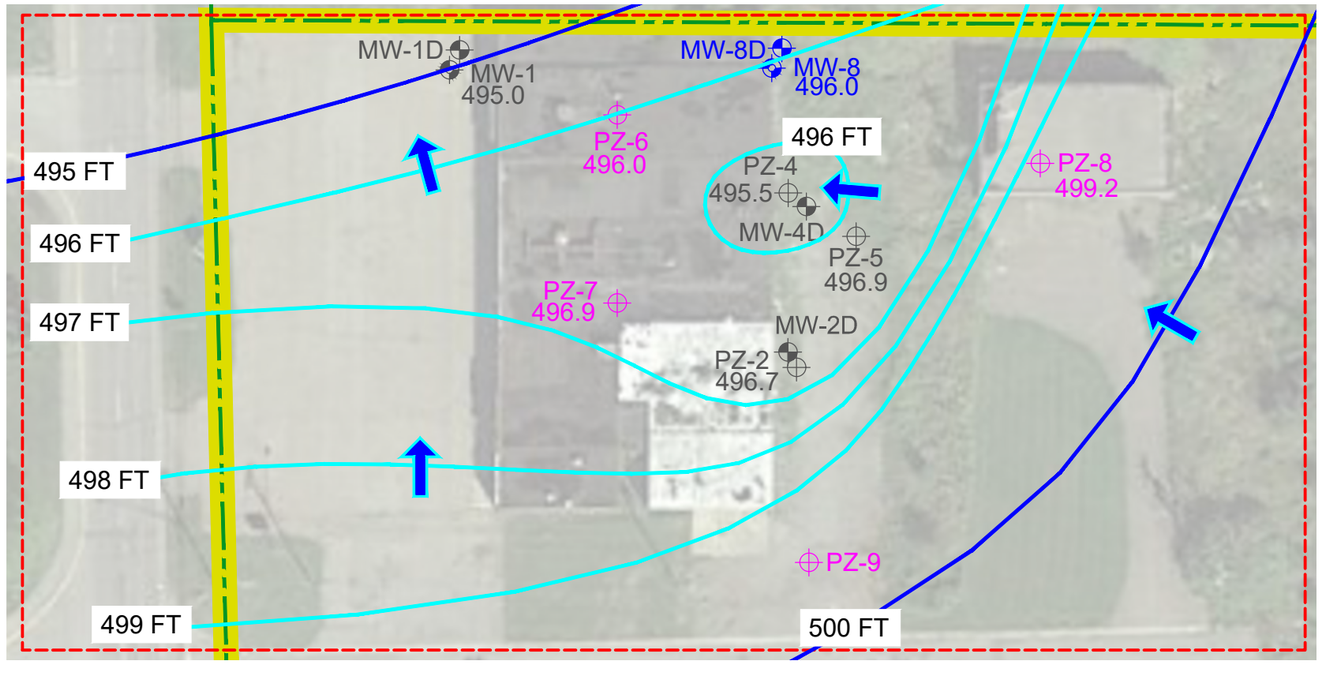
Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: FEBRUARY 2025	FIGURE
Prepared by: CNK-CMC	Scale: AS SHOWN	5B
Project Mgr: BWM	Project: 3979.0009B000	
File: FIGURE 5B; RI GROUNDWATER INVESTIGATION LOCATIONS AND EXCEEDANCES (EASTERN PORTION).DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AA\RI\FIGURE 5B; RI GROUNDWATER INVESTIGATION LOCATIONS AND EXCEEDANCES (EASTERN PORTION).DWG





LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- PZ-1 — HISTORIC SOIL BORING/PIEZOMETER
- MW-1 — HISTORIC OVERBURDEN MONITORING WELL
- MW-1D — HISTORIC BEDROCK MONITORING WELL
- PZ-6 — RI SOIL BORING/PIEZOMETER
- MW-8 — RI OVERBURDAN MONITORING WELL
- MW-8D — RI BEDROCK MONITORING WELL
- GROUNDWATER ISPOTENTIAL (5 FT)
- GROUNDWATER ISPOTENTIAL (1 FT)
- GROUNDWATER FLOW DIRECTION

N

175' 0 175'

NOTES:

1. IMAGE TAKEN FROM GOOGLE EARTH 2018.
2. WELLS SURVEYED JANUARY 5, 2022 AND OCTOBER 21, 2022.
3. WATER LEVEL MEASURED ON FEBRUARY 4, 2021 AND APRIL 6, 2021 (PZ-6, PZ-7, AND PZ-8)

Title: **GROUNDWATER ISOPOTENTIAL MAP**

REMEDIAL INVESTIGATION ALTERNATIVES ANALYSIS REPORT

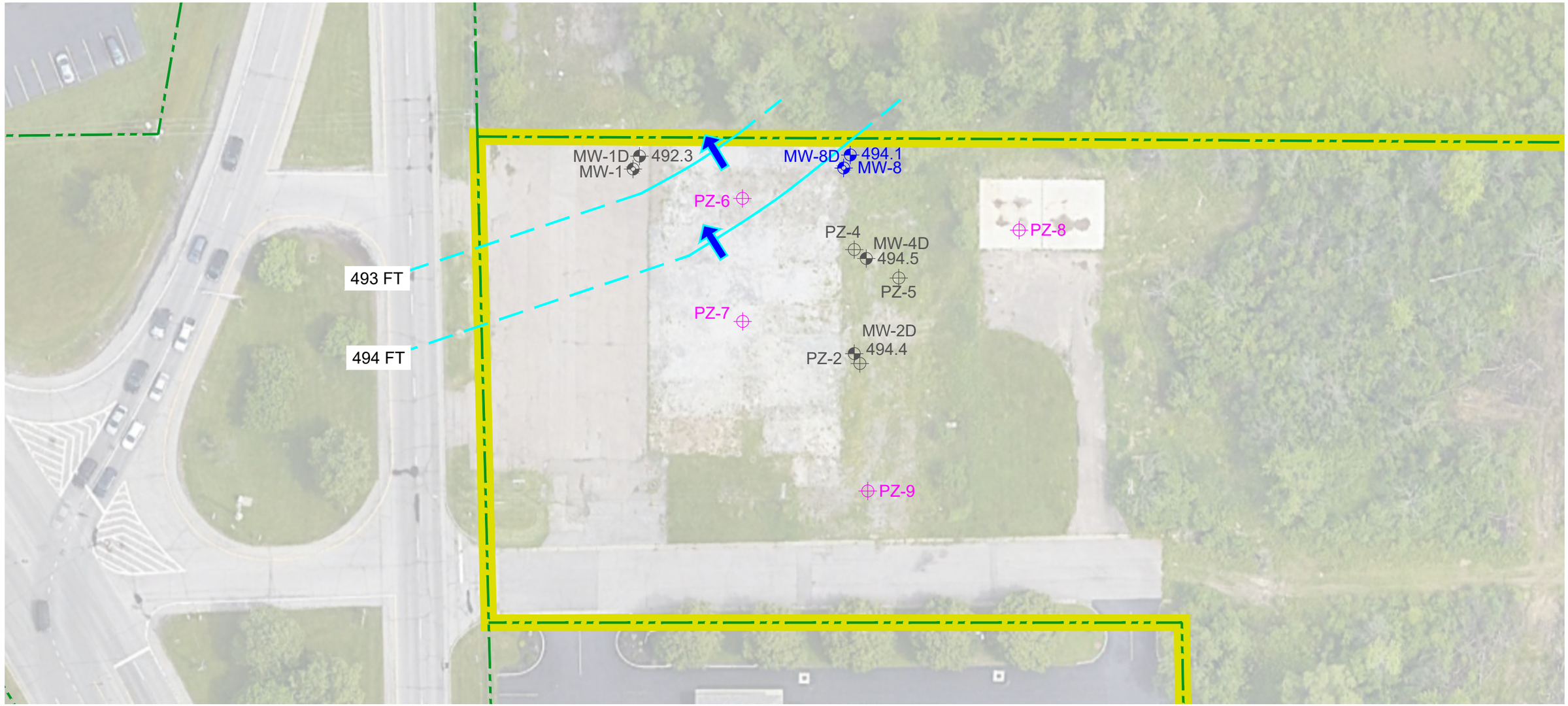
3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: MARCH 2025	FIGURE
Prepared by: CNK-CMC	Scale: AS SHOWN	
Project Mgr: BWM	Project: 3979.0009B000	6A
File: FIGURE 6A; OVERBURDEN GROUNDWATER ISOPOTENTIAL MAP WITH ADDITIONAL WELL OCT 2023.DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 6A; OVERBURDEN GROUNDWATER ISOPOTENTIAL MAP WITH ADDITIONAL WELL OCT 2023.DWG



LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- PZ-1 — HISTORIC SOIL BORING/PIEZOMETER
- MW-1 — HISTORIC OVERBURDEN MONITORING WELL
- MW-1D — HISTORIC BEDROCK MONITORING WELL
- PZ-6 — RI SOIL BORING/PIEZOMETER
- MW-8 — RI OVERBURDAN MONITORING WELL
- MW-8D — RI BEDROCK MONITORING WELL
- GROUNDWATER ISPOTENTIAL (1 FT)
- GROUNDWATER FLOW DIRECTION

NOTES:

1. IMAGE TAKEN FROM GOOGLE EARTH 2022.
2. WELLS SURVEYED JANUARY 5, 2022 AND OCTOBER 21, 2022.
3. WATER LEVEL MEASURED ON FEBRUARY 4.

N

50' 0 50'

Title:

BEDROCK GROUNDWATER ISOPOTENTIAL MAP

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

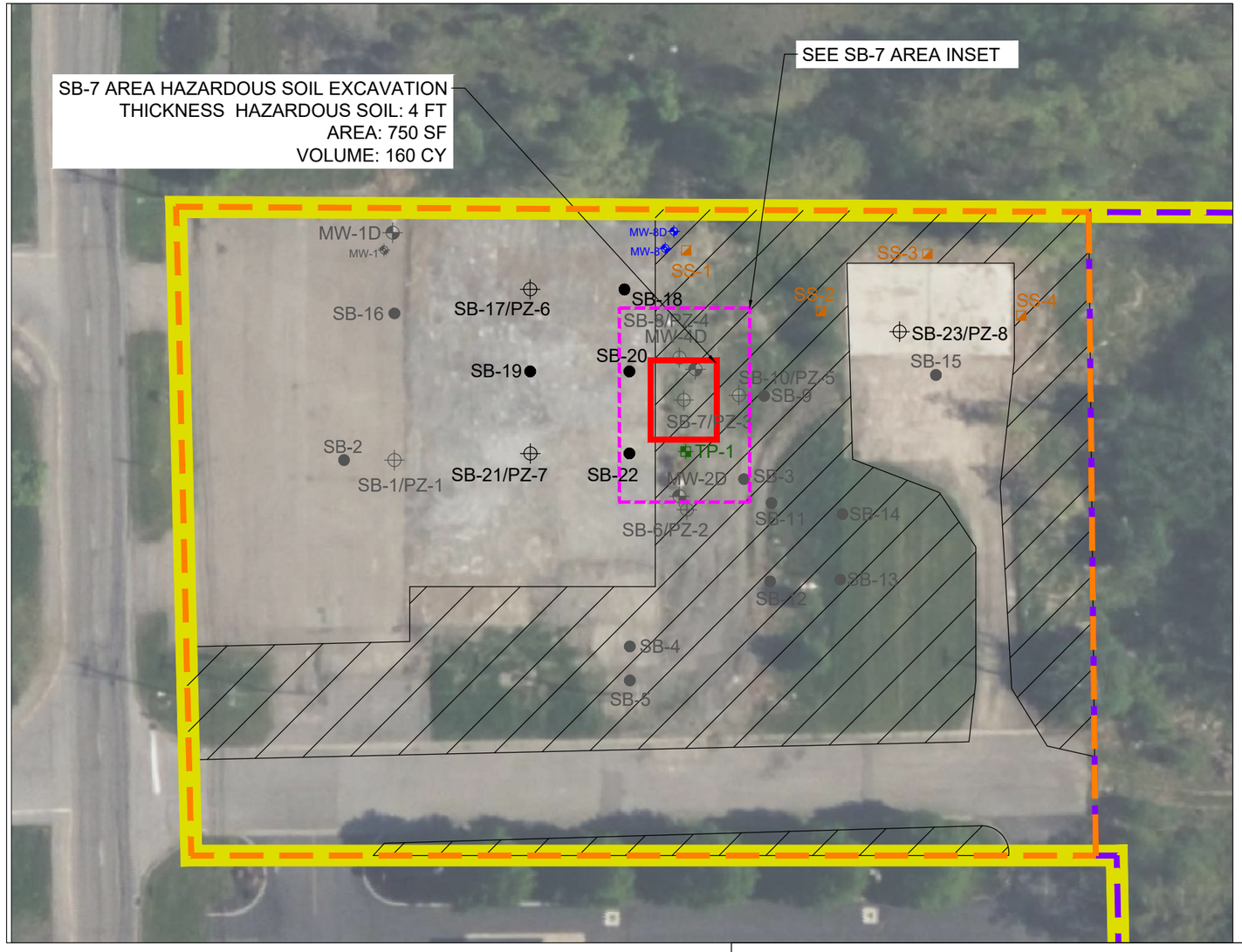
3077 UNION ROAD SITE (C915349)
ORCHARD PARK, NEW YORK

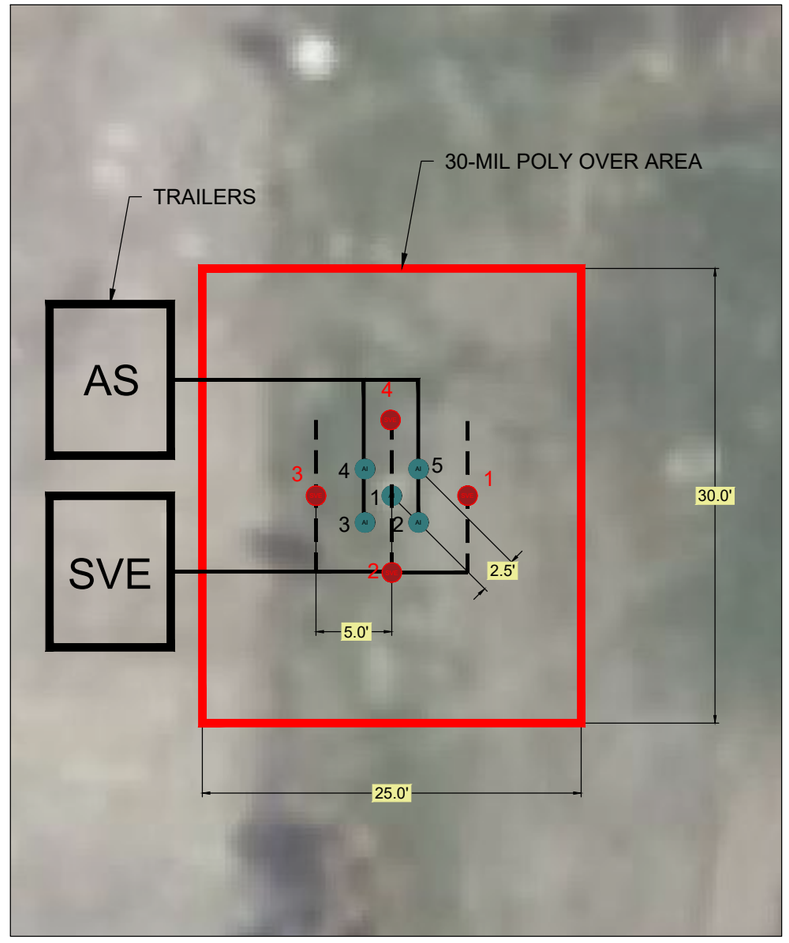
Prepared for:
570 DAB 4, LLC

ROUX

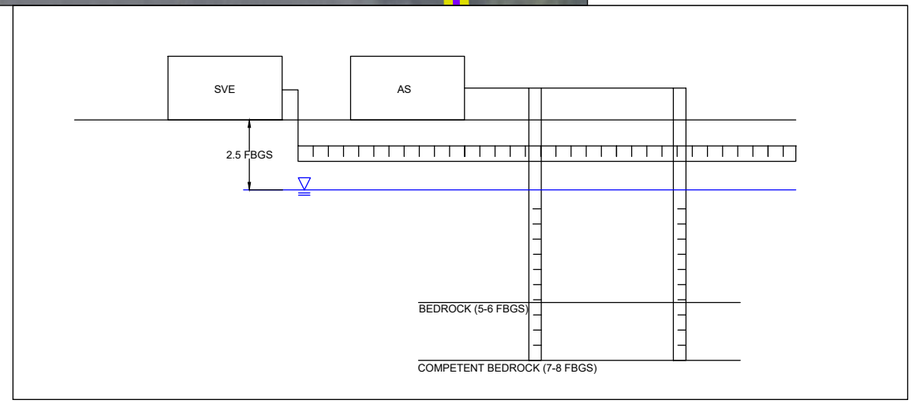
Compiled by:	Date: MARCH 2025	FIGURE
Prepared by: CNK-CMC	Scale: AS SHOWN	6B
Project Mgr: BWM	Project: 3979.0009B000	
File: FIGURE 6B; BEDROCK GROUNDWATER ISOPOTENTIAL MAP.DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 6B; BEDROCK GROUNDWATER ISOPOTENTIAL MAP.DWG





INSET SB-7 AREA
SCALE 1" = 10'



INSET SB-7 AREA PROFILE VIEW
NTS

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

N

Title:

PROPOSED REMEDY (WESTERN PORTION)

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

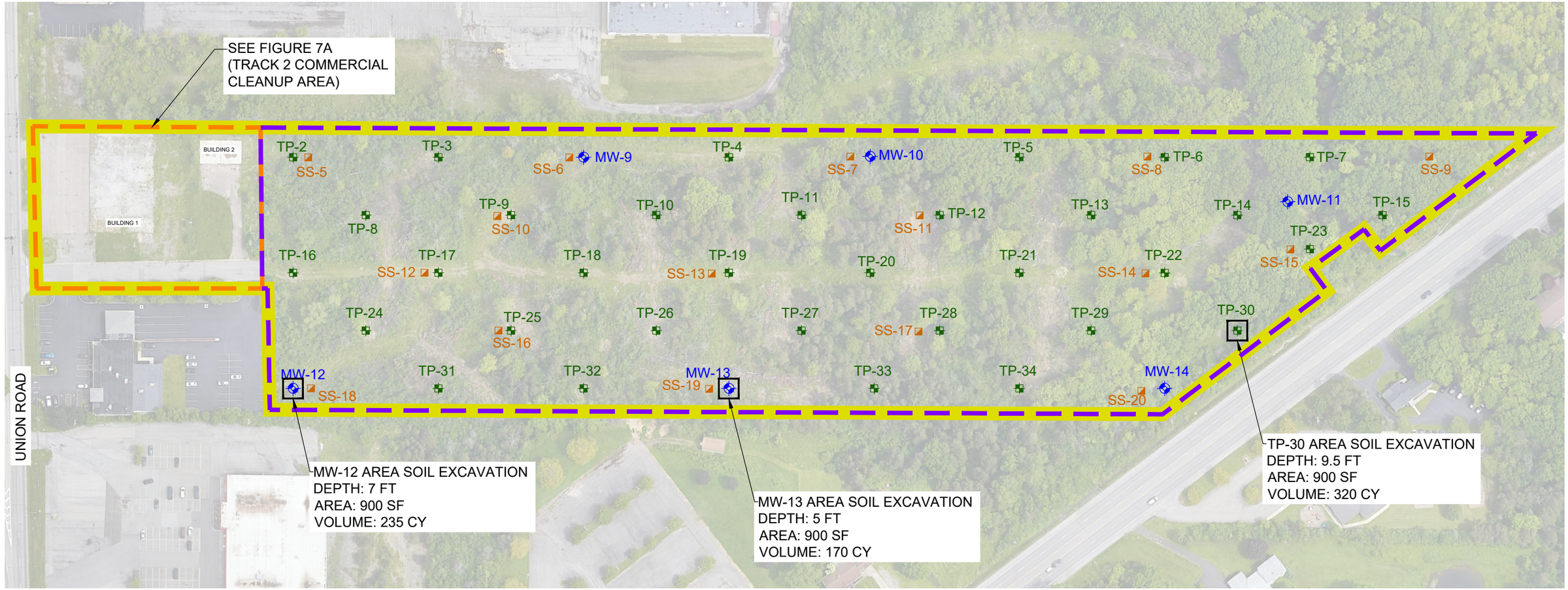
3077 UNION ROAD SITE (C915349)
ORCHARD PARK, NEW YORK

Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: MARCH 2025	FIGURE
Prepared by: CNK-CMC	Scale: AS SHOWN	7A
Project Mgr: BWM	Project: 3979.0009B000	
File: FIGURE 7A; PROP REMEDY (WESTERN) RFL.DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 7A; PROP REMEDY (WESTERN) RFL.DWG



LEGEND:

	BCP SITE BOUNDARY
SS-1	RI SURFACE SOIL SAMPLE
TP-1	RI TEST PIT
MW-8	RI OVERBURDAN MONITORING WELL
	TRACK 4 COMMERCIAL CLEANUP AREA
	TRACK 2 RESIDENTIAL CLEANUP AREA
	NON-HAZARDOUS SOIL EXCAVATION EXTENT

NOTES:
1. IMAGE TAKEN FROM GOOGLE EARTH 2022.

TOTAL SITE AREA	17.91 ACRES
TRACK 2 RESIDENTIAL AREA (EASTERN PORTION)	15.98 ACRES

N

150' 0 150'

Title:
PROPOSED SITE REMEDY - RESIDENTIAL TRACK 2 AREA
REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

Prepared for:
570 DAB 4, LLC

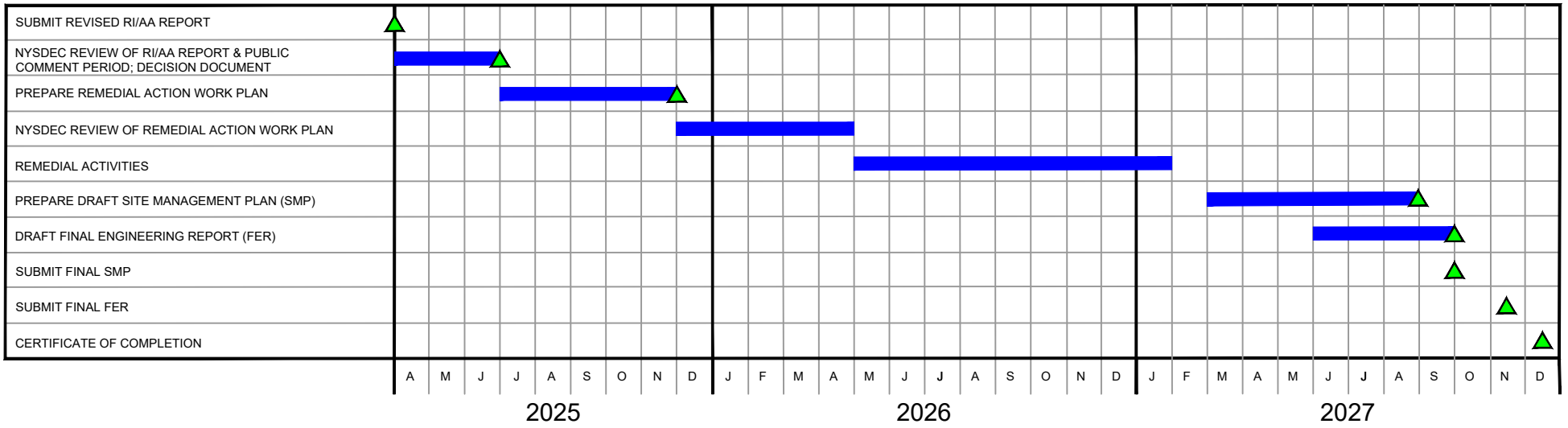
ROUX

Compiled by:	Date: DECEMBER 2024	FIGURE
Prepared by: CNK-CMC	Scale: AS SHOWN	7B
Project Mgr: BWM	Project: 3979.0009B000	
File: FIGURE 7B; PROPOSED SITE REMEDY (EASTERN PORTION).DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 7B; PROPOSED SITE REMEDY (EASTERN PORTION).DWG

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 8; PROPOSED PROJECT SCHEDULE.DWG

PROJECT TASKS:



Title:

PROJECT SCHEDULE

3077 UNION ROAD SITE

BCP SITE NO. C915349
ORCHARD PARK, NEW YORK

Prepared for:

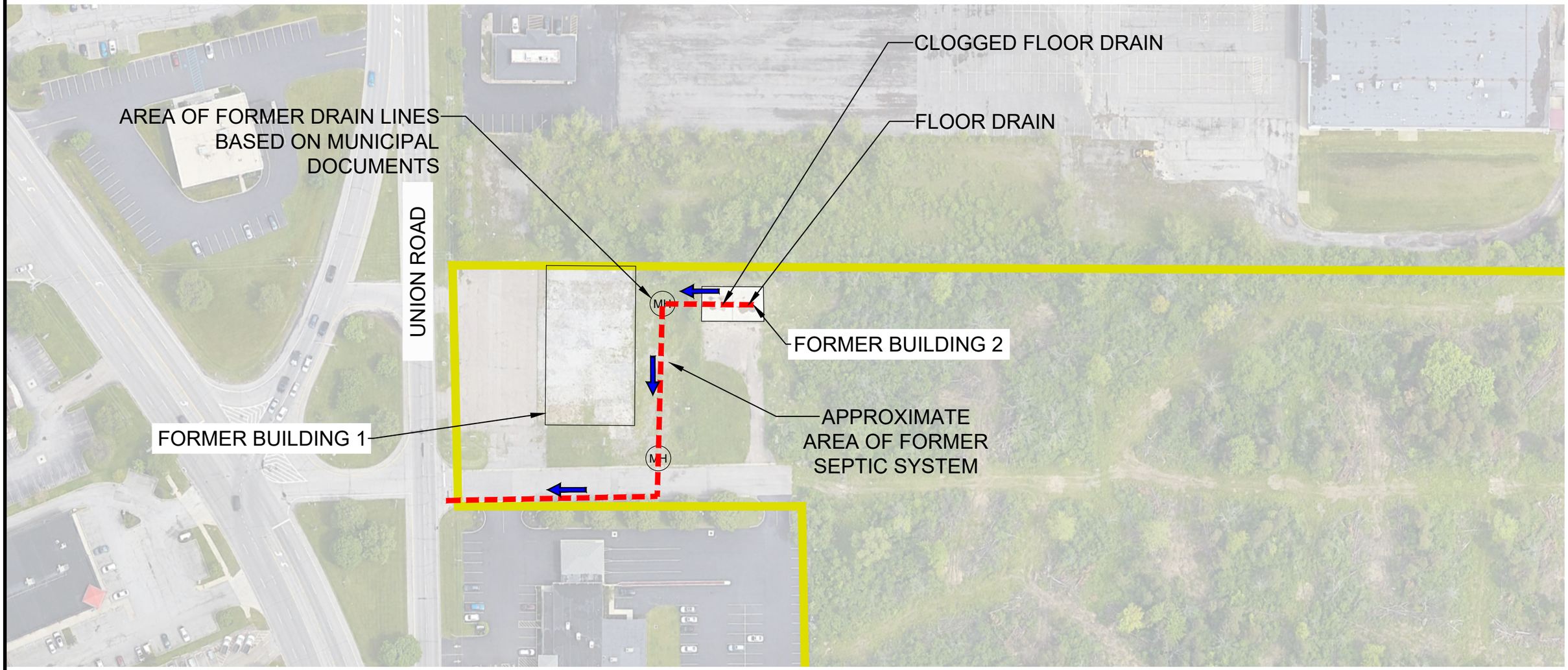
570 DAB 4, LLC

ROUX

Compiled by: CNK	Date: SEPTEMBER 2024
Prepared by: CNK	Scale: N/A
Project Mgr: BWM	Project: 3979.0009B000
File: FIGURE 8; PROPOSED PROJECT SCHEDULE.DWG	

FIGURE

8



LEGEND:

- BCP SITE BOUNDARY
- FORMER BUILDING LOCATION
- MH — MANHOLE
- 4" SEWER LINE
- SUSPECTED DIRECTION OF FLOW IN 4" SEWER LINE

N

100' 0 100'

Title:

EXISTING AND FORMER DRAINAGE SYSTEM

REMEDIAL INVESTIGATION/ALTERNATIVES ANALYSIS REPORT

3077 UNION ROAD SITE (BCP SITE NO. C915349)
ORCHARD PARK, NEW YORK

Prepared for:
570 DAB 4, LLC

ROUX

Compiled by:	Date: MARCH 2025	FIGURE
Prepared by: CMC	Scale: AS SHOWN	9
Project Mgr: BWM	Project:	
File: FIGURE 9; EXISTING AND FORMER DRAINAGE SYSTEM.DWG		

F:\CAD\TURNKEY\BENDERSON\3077 UNION ROAD AND ASSOCIATED PARCELS\RI-AAR\FIGURE 9; EXISTING AND FORMER DRAINAGE SYSTEM.DWG

APPENDIX A

PROJECT PHOTOLOG

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of the drilling of MW-8

Photo 2: View of the soils encountered at MW-8.

Photo 3: View of the drilling of MW-8D

Photo 4: View of the drilling of MW-13.

3077 Union Road Photo Date: Fall 2021	ROUX

SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: View of the bedrock encountered at MW-8D.

Photo 6: View of the drilling of MW-12.

Photo 7: View of the soils encountered at MW-12.

Photo 8: View of the drilling of MW-14.

SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: View of the soils at MW-8D

Photo 10: View of the installation of soil vapor points.

Photo 11: View of TP-17.

Photo 12: View of TP-30.

SITE PHOTOGRAPHS

Photo 13:



Photo 14:



Photo 15:



Photo 16:



Photo 13: View of TP-1.

Photo 14: View of TP-3.

Photo 15: View of TP-5.

Photo 16: View of TP-16.

APPENDIX B

PHASE II & RI BOREHOLE/TEST PIT LOGS AND WELL COMPLETION DETAILS

Project No: T0105-017-001

Borehole Number: SB-1

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.: PZ-1

Client: Benderson Development Company

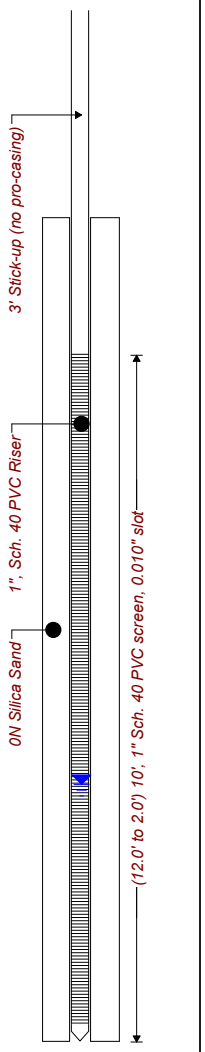
Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	0.0	Ground Surface							
	0.0 / -0.5	***Asphalt and Subbase***					0.0		
	0.5 / -1.2	***Fill*** Black, moist, mostly gravelly fill, some non-plastic fines, some red brick					0.0		
2.0	1.2	***Lean Clay*** Brown, moist, mostly medium plasticity fines, some angular gravel, trace fine sands, medium toughness, medium density, reworked.			2.3		0.0		
	-4.0 / 4.0	As Above					0.0		
	-5.2 / 5.2	***Well Graded Gravel with Silt and Sand*** Brown, moist, mostly angular gravel, some non-plastic fines, some fine sand, loose.			3.6		0.0		
7.0							0.0		
	-8.0 / 8.0	As Above					0.0		
	-8.5 / 8.5	***Weathered Rock with Silt and Sand*** Grey, moist, mostly weathered rock, some fine sand, some non-plastic fines, loose.					0.0		
		Equipment refusal at 12.0 fbgs			2.6		1.1		
							0.0	Sample Location	
12.0	-12.0 / 12.0	End of Borehole					0.0		



Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2" with 1" well
Stick-up: 3'
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-2

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt and Subbase***					0.4		
	-0.5 / 0.5	***Fill*** Black, moist, mostly gravelly fill, some non-plastic fines, red brick layer from 1.4 to 1.8 fbgs.							
	-1.2 / 1.2	***Lean Clay*** Brown, moist, mostly medium plasticity fines, some angular gravel, trace fine sands, medium toughness, medium density, reworked.			2.7		0.0		
							0.0		
	-4.0 / 4.0	As Above					0.0		
5.0					3.0		0.0		
	-6.3 / 6.3	***Well Graded Gravel with Silt and Sand*** Brown, moist, mostly angular gravel, some non-plastic fines, some fine sand, loose.					0.0		
	-8.0 / 8.0	***Weathered Rock with Silt and Sand*** Grey, moist, mostly weathered rock, some fine sand, some non-plastic fines, loose. Equipment refusal at 12.0 fbgs					0.0		
10.0					3.2		0.0		
							0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-3

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface ***Asphalt and Subbase***					0.0		
	-1.1 / 1.1	***Well Graded Gravel with Silt and Sand*** Brown, moist, mostly well-graded gravel some fine sand, trace medium plasticity fines. loose			1.9		0.5		
							0.0		
	-4.0 / 4.0	***Weathered Rock***			.5		1.4	Sample Location	
	-4.5 / 4.5	Equipment refusal at 4.5 fbgs End of Borehole							
5.0									

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-4

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete and Subbase***							
	-0.5 / 0.5	***Fill - Lean Clay with Well Graded Gravel*** Brown, moist, mostly medium plasticity fines, some well-graded gravel and fine sand,. loose.					0.0		
	-1.0 / 1.0	***Fill - Well Graded Gravel with Clay*** Brown, moist, mostly well-graded gravel, some medium plasticity fines and sand, loose							
	-2.0 / 2.0	***Lean Clay with Well-Graded Gravel*** Brown,moist, mostly medium plasticity fines, some gravel, trace fine sand, meium density, medium toughness.			2.8		0.0		
							1.4	Sample Location	
	-4.0 / 4.0	As Above					1.4		
					1.5				
5.0	-5.0 / 5.0	***Weathered Rock***					1.7		
	-5.5 / 5.5	Equipiment refusal at 5.5 fbgs							
		End of Borehole							

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-5

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface ***Well-Graded Gravel with Clay and Sand*** Brown, moist, mostly sub-angular gravel, some medium plasticity fines, trace fine sand, loose Equipment refusal at 4.0 fbgs			2.7		0.0 0.0 0.0 0.0		
	-4.0 / 4.0	End of Borehole							

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-6/PZ-2

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.: PZ-2

Client: Benderson Development Company

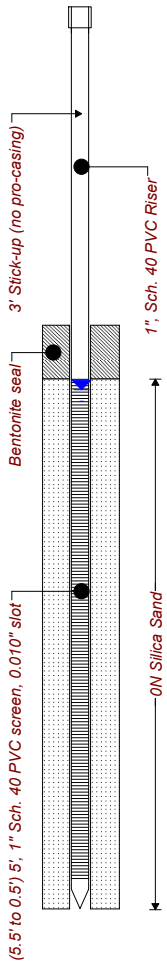
Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	0.0	Ground Surface							
	0.0	***Asphalt and Subbase***							
	-0.5 / 0.5	***Lean Clay with Gravel*** Grey-Brown, moist, mostly medium plasticity fines, some angular gravel, grey iron staining					0.0		
2.0					3.5		0.0		
							0.0		
	-4.0 / 4.0	***Well-Graded Gravel with Sand and Clay*** Grey, moist, mostly sub-angular gravel, some fine sand, trace medium plasticity fines, loose.					0.0		
					1.5		0.0		
	-5.2 / 5.2	***Weathered Rock*** Grey, moist, mostly weathered roack, some medium plasticity fines.							
	-5.5 / 5.5	Equipment refusal at 5.5 fbgs							
		End of Borehole							
7.0									



Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2" with 1" well
Stick-up: 3'
Datum:

Sheet: 1 of 1

Project No: 0105-017-001

Borehole Number: SB-7/PZ-3

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.: PZ-3

Client: Benderson Development Company

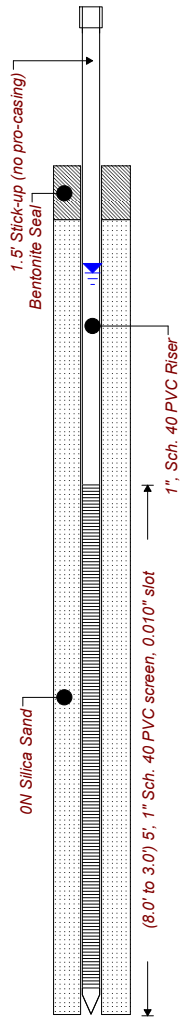
Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm	Lab Sample	Well Completion Details or Remarks
-2.0							0 1000 2000 3000		
	0.0	Ground Surface							
	0.0	***Gravel and Subbase***							
3.0					0.7		0.0, 50, 200		
	-4.0								
	4.0	***Lean Clay with Gravel*** Grey-brown, moist, mostly medium plasticity fines, some sub-angular gravel, trace fine sand. Noticeable sweet odor in soil.					200, 2200, 1850	Sample Location	
	-5.7								
	5.7	***Weathered Rock*** Grey, moist, mostly weathered rock, some medium plasticity fines. Equipment refusal at 8.0 fbgs			3.6		150, 150	Sample Location	
8.0	-8.0						0.0		
	8.0	End of Borehole							



Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2" with 1" well
Stick-up: 1.5'
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-8/PZ-4

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.: PZ-4

Client: Benderson Development Company

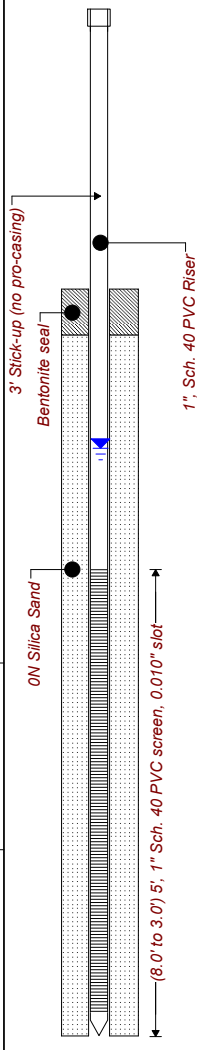
Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
	0.0	Ground Surface							
	0.0	***Asphalt and Subbase***							
	-0.5 / 0.5	***Lean Clay with Gravel*** Reddish-Brown, moist, mostly medium plasticity fines, some angular gravel, little fine sand, medium toughness, medium density.			2.2		0.0, .5, 0.0		
	-4.0 / 4.0	As Above					0.0		
	-4.8 / 4.8	***Well-Graded Gravel with Clay and Sand*** Brown, moist, mostly sub-angular gravel, some medium plasticity fines, little fine sand, loose. Equipment refusal at 8.0 fbgs			3.6		0.0, 0.5, 0.0, 0.0	Sample Location	
	-8.0 / 8.0	End of Borehole							



Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2" with 1" well
Stick-up: 3'
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-9

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface ***Asphalt and Subbase***					0.0		
	-0.5 / 0.5	***Lean Clay with Gravel*** Reddish-Brown, moist, mostly medium plasticity fines, some angular gravel, little fine sand, medium toughness, medium density.							
					2.4		0.0		
	-2.2 / 2.2	***Weathered Rock*** Equpiment refusal at 4.0 fbgs					0.0		
	-4.0 / 4.0	End of Borehole					1.4		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-10/PZ-5

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.: PZ-5

Client: Benderson Development Company

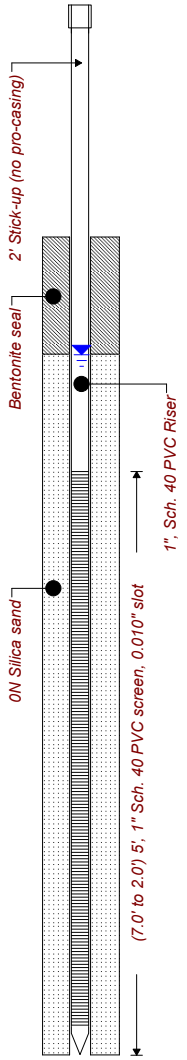
Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-2.0									
	0.0	Ground Surface							
	0.0	***Asphalt and Subbase***							
	-0.5 / 0.5	***Lean Clay with Gravel*** Reddish-Brown, moist, mostly medium plasticity fines, some angular gravel, little fine sand, medium toughness, medium density.					0.0		
	-2.2 / 2.2	***Weathered Rock***			2.4		0.0		
3.0							0.0		
	-4.0 / 4.0	As Above					0.0		
		Equipment refusal at 7.0 fbgs			3.0		0.0		
							0.0		
	-7.0 / 7.0	End of Borehole					0.0		
8.0									



Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2" with 1" well
Stick-up: 2'
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-11

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
	-0.3 / 0.3	***Topsoil*** Brown, moist, mostly organic soil, some medium plasticity fines.							
	-0.5 / 0.5	***Lean Clay*** Light Brown, moist, mostly medium plasticity fines, some angular gravel, trace fine sand, medium toughness, medium density.							
		Gravel with Silt Dark Brown, moist, mostly sub-angular gravel, some non-plastic fines, loose					0.0		
	-2.0 / 2.0	***Weathered Rock***			2.5		0.0		
		Equipment refusal at 4.0 fbgs					1.0	Sample Location	
	-4.0 / 4.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-12

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
	-0.3 / 0.3	***Topsoil*** Brown, moist, mostly organic soil, some medium plasticity fines.							
	-0.5 / 0.5	***Lean Clay*** Light Brown, moist, mostly medium plasticity fines, some angular gravel, trace fine sand, medium toughness, medium density.							
		Gravel with Silt Dark Brown, moist, mostly sub-angular gravel. some non-plastic fines, loose.					0.1		
	-2.0 / 2.0	***Weathered Rock***			2.3		0.0		
		Equipment refusal at 4.0 fbgs					0.1		
	-4.0 / 4.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-13

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Topsoil*** Brown, moist, mostly organic soil, some medium plasticity fines.					0.0		
	-0.5 / 0.5	***Lean Clay with Sand*** Reddish-Brown, moist, mostly medium plasticity fines, some fine sand, trace sub-angular gravel, medium toughness, medium density.					0.0		
	-1.8 / 1.8	***Sand with Lean Clay*** Reddish-Brown, moist, mostly fine sand, some medium plasticity fines, trace sub-angular gravel.			2.9		0.0		
	-2.3 / 2.3	***Weathered Rock with Clay and Sand*** Reddish-Brown, mostly angular gravel, some fine sand and medium plasticity fines.					0.0		
	-4.0 / 4.0	As Above					0.0		
5.0					3.6		0.0		
							0.0		
	-8.0 / 8.0	As Above					0.0		
		Equipment refusal at 9.0 fbgs			0.8				
	-9.0 / 9.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-14

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
		Topsoil Brown, moist, mostly organic soil, some medium plasticity fines.							
	-0.5 / 0.5	***Lean Clay with Sand*** Light brown, moist, mostly medium plasticity fines, some fine sand, trace sub-angular gravel, medium toughness, medium density.			3.6		0.0		
	-4.0 / 4.0	As Above					0.0		
5.0							0.0		
	-5.5 / 5.5	***Weathered Rock*** Dark Brown, moist, mostly angular gravel, some fine sand, trace medium plasticity fines, loose. Equipment refusal at 7.8 fbgs			3.6		0.0		
	-7.8 / 7.8	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-15

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt and Subbase***							
	-0.5								
	0.5	***Lean Clay*** Dark brown and grey, moist, mostly medium plasticity fines, trace angular gravel, trace fine sand, low toughness, medium density.					0.0		
					2.8		0.0		
							0.0		
	-4.0						0.0		
	4.0	As Above					0.0		
5.0							0.0		
	-6.2				2.4		0.0		
	6.2	***Weathered Rock***					0.0		
	-8.0						0.0		
	8.0	As Above Equpiment refusal at 9.5 fbgs			1.0		0.0		
	-9.5								
	9.5	End of Borehole							
10.0									

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-16

Project: 3077-3097 Union Road and 20-26 Harold Square

A.K.A.:

Client: Benderson Development Company

Logged By: CMS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt and Subbase***					0.0		
	-1.3 / 1.3	***Lean Clay*** Dark brown, mostly medium plasticity fines, trace fine sand, medium toughness, medium density.			2.0		0.0		
	-4.0 / 4.0	As Above, color change to brown-grey.					0.0		
5.0							0.0		
	-6.3 / 6.3	***Lean Clay with Weathered Rock*** As Above, with angular gravel			3.4		0.0		
	-8.0 / 8.0	As Above, wet.					0.0		
	-9.9 / 9.9	***Weathered Rock*** Grey, wet, mostly angular gravel, trace medium plasticity fines, loose.			3.8		0.0		
10.0							0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 1/22/2018

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-17/PZ-6

Project: 3077 Union Road

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

Site Location: Orchard Park, New York

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill*** Brown/black, moist, mostly fine sand, some fill (brick, cinders, few ash), no odors					0.0		
	-1.8 / 1.8	***Lean Clay*** Dark brown, mostly medium plasticity fines, trace fine sand, medium toughness, medium density.	1		2		0.0		
							0.0		
							0.0		
5.0			2		4		0.0		
							0.0		
							0.0		
							0.0		
	-8.0 / 8.0	***Lean Clay with Weathered Rock*** As Above, wet with angular gravel					0.0		
	-9.0 / 9.0	***Weathered Rock*** Grey, wet, mostly angular gravel, trace medium plasticity fines, loose.	3		3		0.0		
10.0	-10.0 / 10.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 4/5/2021

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-18

Project: 3077 Union Road

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

Site Location: Orchard Park, New York

Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill*** Brown, moist, mostly fill (gravel, cinders, concrete, brick), no odors.					0.0		
	-2.0		1		2		0.0		
	2.0	***Lean Clay with Sand*** Reddish-Brown, moist, mostly medium plasticity fines, some fine sand, trace sub-angular gravel, medium toughness, medium density.					0.0		
							0.0		
5.0			2		4		0.0		
	-6.0						0.0		
	6.0	***Weathered Rock with Clay and Sand*** Reddish-Brown, mostly angular gravel, some fine sand and medium plasticity fines.					0.0		
	-7.0								
	7.0	End of Borehole							
10.0									

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 4/5/2021

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-19

Project: 3077 Union Road

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

Site Location: Orchard Park, New York

Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill*** Brown, moist, mostly subangular gravel, little slag, brick, loose when disturbed, no odors.					0.0		
	-1.0 / 1.0	***Lean Clay with Sand*** Reddish-Brown, moist, mostly medium plasticity fines, some fine sand, trace sub-angular gravel, medium toughness, medium density.	1		2		0.0		
	-4.0 / 4.0	***Weathered Rock with Clay and Sand*** Reddish-Brown, mostly angular gravel, some fine sand and medium plasticity fines.					0.0		
5.0			2		4		0.0		
	-7.0 / 7.0	***Weathered Bedrock*** Grey, wet, mostly angular gravel, trace medium plasticity fines, loose.					0.0		
	-8.0 / 8.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 4/5/2021

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-20

Project: 3077 Union Road

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

Site Location: Orchard Park, New York

Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0 -0.3 0.3	***Fill*** Brown, moist, mostly fine sand, some fill (slag, cinders), no odors.							
		Lean Clay with Sand Reddish-Brown, moist, mostly medium plasticity fines, some fine sand, trace sub-angular gravel, medium toughness, medium density.	1		2		0.0 0.0 0.0 0.0		
5.0	-5.0 5.0	***Weathered Rock with Clay and Sand*** Reddish-Brown, mostly angular gravel, some fine sand and medium plasticity fines.	2		4		0.0 0.0 0.0		
	-7.5 7.5	***Weathered Bedrock*** Grey, wet, mostly angular gravel, trace medium plasticity fines, loose.					0.0		
	-8.0 8.0	End of Borehole							

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 4/5/2021

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-21/PZ-7

Project: 3077 Union Road

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

Site Location: Orchard Park, New York

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Subangular Gravel and Slag*** Grey, moist, mostly subangular gravel, some slag, loose when disturbed, no odors					0.0		
	-2.0 / 2.0	***Lean Clay*** Dark brown, mostly medium plasticity fines, trace fine sand, medium toughness, medium density.	1		1		0.0		
5.0							0.0		
	-6.0 / 6.0	***Lean Clay with Weathered Rock*** As Above, wet with angular gravel	2		4		0.0		
	-8.0 / 8.0	***Weathered Rock*** Grey, wet, mostly angular gravel, trace medium plasticity fines, loose.	3		1		0.0		
	-9.0 / 9.0	End of Borehole					0.0		
10.0									

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 4/5/2021

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-22

Project: 3077 Union Road

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

Site Location: Orchard Park, New York

Checked By: BWM

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Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Silty sand*** Brown, moist, mostly silty sand, little sandy lean clay, no odors.	1		2		0.0		
	-4.0						0.0		
	4.0	***Lean Clay with Sand*** Reddish-Brown, moist, mostly medium plasticity fines, some fine sand, trace sub-angular gravel, medium toughness, medium density.					0.0		
5.0			2		4		0.0		
	-6.0						0.0		
	6.0	***Weathered Rock with Clay and Sand*** Reddish-Brown, mostly angular gravel, some fine sand and medium plasticity fines.							
	-6.8						0.0		
	6.8	***Weathered Bedrock*** Grey, wet, mostly angular gravel, trace medium plasticity fines, loose.							
		End of Borehole							

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 4/5/2021

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: T0105-017-001

Borehole Number: SB-23/PZ-8

Project: 3077 Union Road

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

Site Location: Orchard Park, New York

Checked By: BWM

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Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete***							
	-0.5 / 0.5	***Subangular Gravel and sand*** Grey, moist, mostly subangular gravel, some silty sand, loose when disturbed, no odors					0.0		
	-2.0 / 2.0	***Lean Clay*** Dark brown, mostly medium plasticity fines, trace fine sand, medium toughness, medium density.	1		1		0.0		
							0.0		
							0.0		
5.0			2		4		0.0		
							0.0		
							0.0		
	-8.0 / 8.0	***Lean Clay with Weathered Rock*** As Above, wet with angular gravel					0.0		
			3		1		0.0		
10.0	-10.0 / 10.0	***Weathered Rock*** Grey, wet, mostly angular gravel, trace medium plasticity fines, loose.					0.0		
	-11.0 / 11.0	End of Borehole					0.0		

Drilled By: Trec Environmental, Inc
Drill Rig Type: Geoprobe 6620 DT
Drill Method: Direct Push
Comments:
Drill Date(s): 4/5/2021

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

ROUX

PZ-9

Client: 570 DAB 4 LLC	Site: 3077 Union Road Site	Project Number: 3979.0009B000
Address: 3077 Union Road	City/State: Orchard park, NY	Logged By: NAS

Start to Finish Date: 12/13/2023 - 12/13/2023	Contractor: Trec Environmental, Inc.	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 5 feet	Backfill:	Borehole Diameter: 2-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Well Depth: 5 feet	Well Dia./Materials: 1-inch PVC	Screen Interval: 5-5 feet	Screen Slot Size: 10-Slot	Sand/Filter Pack Size: #00	Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		GP		Subangular gravel			0	
		CLS		Lean Clay with Gravel- Grey-brown, moist, mostly lean clay, some subangular gravel, no odors		1		
1							0	
						1		
2							0	
						1		
3							0	
						1		
4		GW-GC		Well graded gravel with sand and clay- Grey, moist, mostly subangular gravel, little fine sand, lean clay, no odors			0	
		BEDR		Weathered Bedrock- grey, moist, mostly weathered bedrock, some lean clay, no odors	G	1		

Bottom of borehole at 5 feet

ROUX STANDARD LOG_ - 9/12/24 13:33 - F:\GINT\PROJECTS\3077 UNION ROAD\3077 UNION ROAD BORING LOGS.GPJ

Project No: 105-017-010

Borehole Number: MW-1

Project: Supplemental Phase II

A.K.A.:

Client: Benderson Development Company

Logged By: TAB

Site Location: Orchard Park, New York

Checked By:

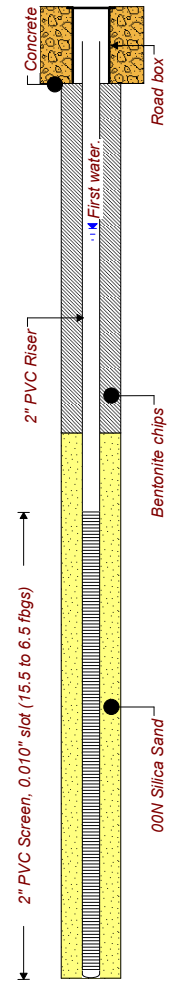
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Buffalo, NY 14218
(716) 856-0635

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol
0.0	495.2 / 0.0	Ground Surface				
	494.8 / 0.4	***Asphalt***				
		See boring log for MW-1D.				
5.0						
10.0						
	484.2 / 11.0	***Silt with Sand*** Brown, moist to wet (8.0 fbgs), mostly non-plastic fines, some fine sand, few fine gravels (sub-rounded), very dense.	S1	100 / 5	1.3	
	482.7 / 12.5	***Bedrock (weathered)***	S2	100	0.0	
	482.2 / 13.0	Dark grey, dry, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks. Spoon refusal at 13.0 fbgs.		4		
		End of Borehole				
15.0						

PID VOCs: ppm, 0, 12.5, 25

Lab Sample

Well Completion Details or Remarks



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 12/19/18 - 12/20/18

Hole Size: eight inch.
Stick-up: Flushmount.
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-1D

Project: Supplemental Phase II

A.K.A.:

Client: Benderson Development Company

Logged By: TAB

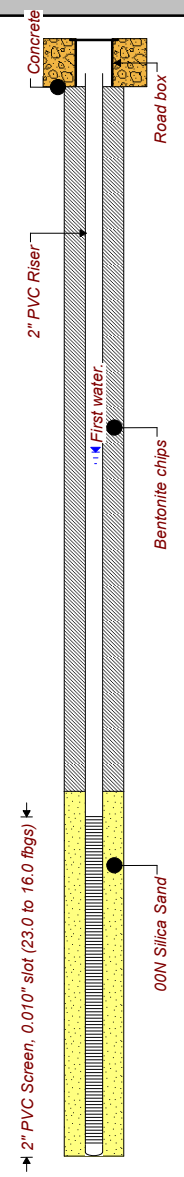
Site Location: Orchard, Park New York

Checked By:

ROUX

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Buffalo, NY 14218
(716) 856-0635

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs (ppm)	Lab Sample	Well Completion Details or Remarks
0.0	495.6 / 0.0	Ground Surface							
	494.6 / 1.0	***Asphalt***							
		Sub-base Dark grey, moist mostly coarse gravel (angular), with fill (slag), loose.	S1	51	1.1		0.0		
	492.6 / 3.0	***Fill*** Black, moist, mostly fine sand with some fine gravel, with slag concrete and brick.	S2	50	1.2		0.0		
5.0		***Lean CLay with Sand*** Dark grey/grey, moist, mostly low to medium plasticity fines, little fine sand, stiff, massive.	S3	15	1.6		0.0		
	489.6 / 6.0	***Silt with Sand*** Brown, moist to wet (8.0 fbgs), mostly non-plastic fines, some fine sand, few fine gravels (sub-rounded), very dense.	S4	43	1.6		0.0.		
			S5	94	1.1		0.0		
10.0	485.6 / 10.0	As above grey, with intermitent shale bedding.	S6	121	1.8		0.0		
	483.6 / 12.0	***Bedrock (weathered)*** Dark grey, dry, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	S7	100/2	0.8		0.0		
	482.6 / 13.0	***Bedrock (Windom Shale)*** Run #1 (13.0 to 18.0fbgs) Recovery = 90.5% RQD = 16.97% Very poor. 13.0 to 14.5 fbgs - highly fractured. 14.5 to 16.3 fbgs - Broken to moderatley fractured. 16.3 to 18.0 fbgs- Highley fractured.	Run #1						
15.0	477.6 / 18.0	Run #2 (18.0 to 23.0 fbgs) Recovery = 92.8% RQD = 41.0% Poor. 18.0 to 23.0 fbgs - broken to moderatley fractured.	Run #2					No water loss.	
20.0	472.6 / 23.0	End of Borehole							



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: Continuous split spoon followed by NQ-2 core barrel
Comments:
Drill Date(s): 12/19/18 - 12/20/18

Hole Size: six inch.
Stick-up: Flushmount.
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-2D

Project: Supplemental Phase II

A.K.A.:

Client: Benderson Development Company

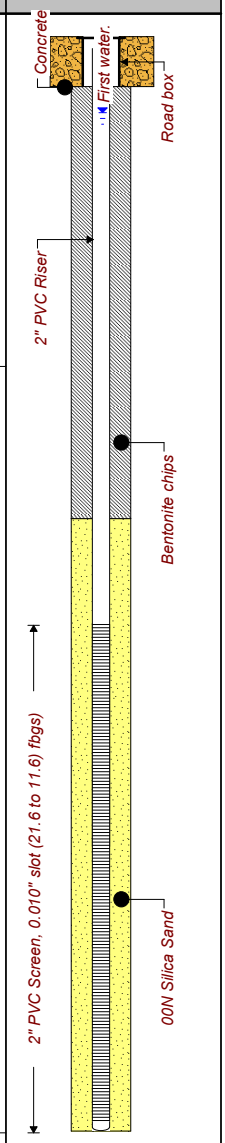
Logged By: TAB

Site Location: Orchard Park, New York

Checked By:

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Buffalo, NY 14218
(716) 856-0635

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs (ppm)	Lab Sample	Well Completion Details or Remarks
0.0	496.9 0.0	Ground Surface							
	495.9 1.0	***Fill*** Brown, moist to wet (1.5 fbgs), mostly non-plasticty fines some fine sand, few fine gravel (shale fragments and sub-rounded).	S1	15	1.2		0.0		
	494.9 2.0	***Lean Clay with Sand*** Dark grey/grey, moist, mostly low to medium plasticity fines, little fine sand, stiff, massive.	S2	39	1.3		0.0		
	492.9 4.0	As above, wet, with little fine gravel (shale fragments)	S3	95	1.2		0.0		
5.0			S4	100	0.0				
	490.4 6.5	***Bedrock (Windom Shale)*** Run #1 (6.5 to 11.5 fbgs) Recovery = 78% RQD = 15.6% Very poor. 6.5 to 11.5 fbgs - intensely fractured, weathered.	Run #1	4			0.0. 0.0 0.0		
10.0	485.4 11.5	Run #2 (11.5 to 16.5 fbgs) Recovery = 95.0% RQD = 15.79% Very Poor. 11.5 to 16.5 fbgs - Intensley fractured, weathered.	Run #2				0.0	No water loss.	
15.0	480.4 16.5	Run #3 (16.5 to 21.6fbgs) Recovery = 100% RQD = 83.33% Good. 16.5.to 18.5 fbgs - moderatly fractured. 18.5 to 21.6 fbgs - slightly fractured.	Run #3						
20.0	475.3 21.6	End of Borehole							



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: Continuous split spoon followed by NQ-2 core barrel
Comments:
Drill Date(s): 12/20/18

Hole Size: six inch.
Stick-up: Flushmount.
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-4D

Project: Supplemental Phase II

A.K.A.:

Client: Benderson Development Company

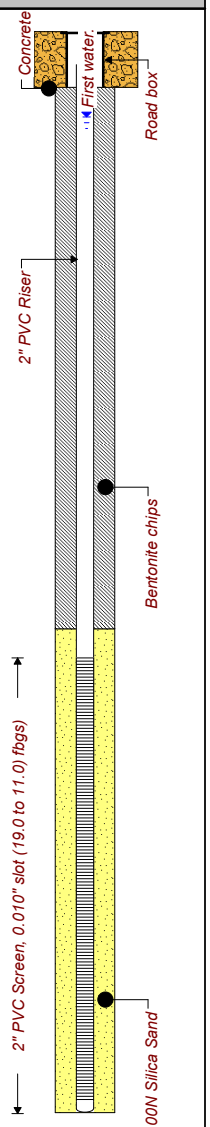
Logged By: TAB

Site Location: Orchard Park, New York

Checked By:

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Buffalo, NY 14218
(716) 856-0635

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs (ppm)	Lab Sample	Well Completion Details or Remarks
0.0	496.4 / 0.0	Ground Surface					0 – 12.5 – 25		
	495.4 / 1.0	***Fill*** Brown, moist to wet (1.5 fbgs), mostly non-plasticty fines some fine sand, few fine gravel (shale fragments and sub-rounded).	S1	17	1.3		0.0		
	494.4 / 2.0	***Lean Clay with Sand*** Dark grey/grey, moist, mostly low to medium plasticity fines, little fine sand, stiff, massive. As above.	S2	14	1.3		2.2		
	492.4 / 4.0	***Silt with sand*** Grey, moist, mostly non-plastic fines, with some sand, with few fin gravels (shale fragments), medium dense.	S3	18	1.9		17.0		
5.0	490.4 / 6.0	As above.	S4	28	0.8		0.0.		
	489.4 / 7.0	***Bedrock (weathered)*** Dark grey, dry, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	S5	100/5	0.8		0.0		
	487.4 / 9.0	***Bedrock (Windom Shale)*** Run #1 (9.0 to 19.0 fbgs) Recovery = 93% RQD = 38.8% poor. 9.0 to 15.0 fbgs - intensely fractured, weathered. 15.0 to 17.0fbgs - moderatley fractured. 17.0 to 19.0fbgs - Slighlty Fractured.	Run #1					No water loss.	
10.0									
15.0									
	477.4 / 19.0	End of Borehole							
20.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: Continuous split spoon followed by NQ-2 core barrel
Comments:
Drill Date(s): 12/21/18

Hole Size: six inch.
Stick-up: Flushmount.
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-8

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

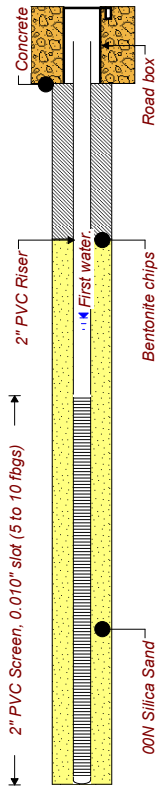
Site Location: Orchard Park, New York

Checked By:

ROUX

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	495.2 / 0.0	Ground Surface See boring log for MW-8D.							
5.0									
	488.2 / 7.0	***Bedrock (weathered)*** Dark grey, dry, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks. Spoon refusal at 10 fbgs.							
10.0	485.2 / 10.0	End of Borehole							
15.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 1/27/2021

Hole Size: 6 inch
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-8D

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

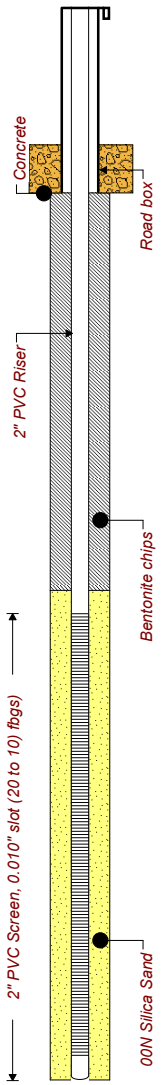
Logged By: NAS

Site Location: Orchard Park, New York

Checked By:

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Buffalo, NY 14218
(716) 856-0635

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm	Lab Sample	Well Completion Details or Remarks
-3.0									
	496.9 / 0.0	Ground Surface							
		Lean Clay with Sand Dark grey/grey, moist, mostly low to medium plasticity fines, little fine sand, stiff, massive.	S1	20	.5		0.0		
2.0		***Fill*** Brown, moist, mostly non-plasticty fines some fine sand, few fine gravel (shale fragments and sub-rounded).	S2	39	2		0.0		
	492.9 / 4.0	As above, wet, with little fine gravel (shale fragments)	S3	57	1		0.0		
			S4	93	1		0.0.		
7.0	489.9 / 7.0	***Bedrock (Windom Shale)*** Run #1 (7 to 12 fbgs) Recovery = 78% RQD = 15.6% Very poor. 6.5 to 11.5 fbgs - intensely fractured, weathered.	Run #1				0.0		
	485.4 / 11.5						0.0		
12.0		Run #2 (12 to 17 fbgs) Recovery = 95.0% RQD = 15.79% Very Poor. 12 to 17 fbgs - Intensley fractured, weathered.	Run #2				0.0	No water loss.	
	480.4 / 16.5								
17.0		Run #3 (17 to 20 fbgs) Recovery = 100% RQD = 83.33% Good. 16.5.to 18.5 fbgs - moderatly fractured. 18.5 to 20 fbgs - slightly fractured.	Run #3						
	476.9 / 20.0	End of Borehole							
22.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: Continuous split spoon followed by NQ-2 core barrel
Comments:
Drill Date(s): 1/27/2021

Hole Size: six inch.
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-9

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

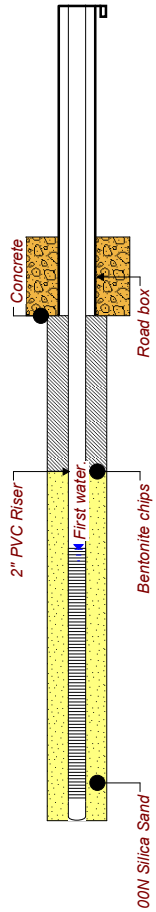
Site Location: Orchard Park, New York

Checked By:

ROUX

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Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	495.2 / 0.0	Ground Surface							
		Silty sand Tan/grey/brown, moist, mostly silty sand, little sandy lean clay, no odors	1		.5		0.0		
2.0			2		1		0.0		
	490.7 / 4.5	***Bedrock (weathered) with sand*** Black/grey, dry, some fine sand highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	3		1		0.0		
7.0	488.2 / 7.0	***Bedrock (weathered)*** Dark grey, dry, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	4		2		0.0		
	487.7 / 7.5	Spoon refusal at 7.5 fbgs.							
		End of Borehole							
12.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 1/27/2021

Hole Size: 6 inch
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-10

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

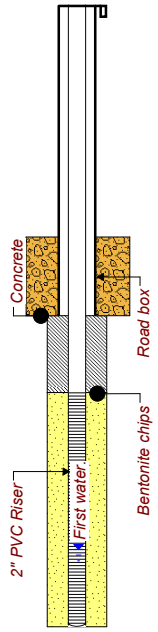
Site Location: Orchard Park, New York

Checked By:

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	495.2 / 0.0	Ground Surface							
		SUbangular gravel Grey, moist, mostly subangular gravel, some fine sand, loose when disturbed, no odors	1		1		0.0		
	493.7 / 1.5	***Sandy Lean Clay*** Brown/grey, moist, mostly sandy lean clay, some fine sand, stiff, no odors					0.0		
2.0		***Fine sand*** Grey, moist, mostly fine sand, some bedrock, no odors	2		1.5		0.0		
	490.7 / 4.5		3		1		0.0		
	490.2 / 5.0	***Bedrock (weathered)*** Dark grey, dry, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks. Spoon refusal at 5 fbgs.					0.0		
		End of Borehole							
7.0									
12.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 1/27/2021

Hole Size: 6 inch
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-11

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

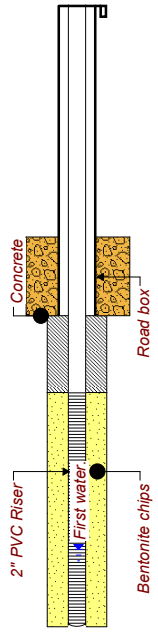
Site Location: Orchard Park, New York

Checked By:

ROUX

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	495.2 / 0.0	Ground Surface							
		Subangular Gravel Grey, moist, mostly subangular gravel, some fine sand, medium dense, no odors	1		.5		0.0		
	493.7 / 1.5	***Fine sand and clay*** Tan, moist, mostly fine sand, some lean clay, stiff, no odors					0.0		
2.0									
	492.7 / 2.5	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors	2		1		0.0		
	492.2 / 3.0	***Bedrock (weathered) with sand*** Black/grey, dry, some fine sand highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.					0.0		
		Bedrock (weathered) Dark grey, wet, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	3		1		0.0		
	490.2 / 5.0	Spoon refusal at 5 fbgs.							
		End of Borehole							
7.0									
12.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 1/27/2021

Hole Size: 6 inch
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-12

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

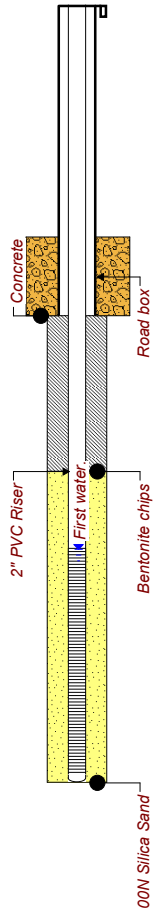
Site Location: Orchard Park, New York

Checked By:

ROUX

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	495.2 / 0.0	Ground Surface							
		Silty sand Tan/grey/brown, moist, mostly silty sand, little sandy lean clay, no odors	1		2		0.0		
2.0			2		.5		0.0		
	491.2 / 4.0	***Fine sand*** Tan, damp, mostly fine sand, little silt, medium dense, no odors	3		1		0.0		
	490.2 / 5.0	***Bedrock (weathered) with sand*** Black/grey, dry, some fine sand highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.					0.0		
	489.2 / 6.0	***Bedrock (weathered)*** Dark grey, dry, some fine sand highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	4		1		0.0		
7.0	488.2 / 7.0	Spoon refusal at 7 fbgs. End of Borehole							
12.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 1/27/2021

Hole Size: 6 inch
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-13

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

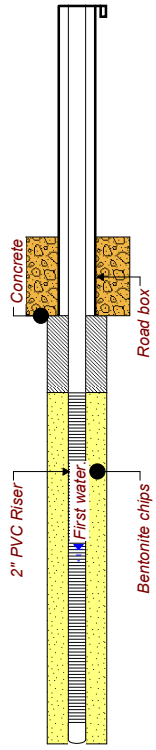
Site Location: Orchard Park, New York

Checked By:

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	495.2	Ground Surface							
	0.0	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors	1		1		0.0		
		Fine sand and clay Tan, moist, mostly fine sand, some lean clay, stiff, no odors					0.0		
2.0	493.0								
	2.3	***Bedrock (weathered) with sand*** Black/grey, dry, some fine sand highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	2		2		0.0		
							0.0		
	490.7								
	4.5	***Bedrock (weathered)*** Dark grey, wet, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	3		1		0.0		
	490.2								
	5.0	Spoon refusal at 5 fbgs.							
		End of Borehole							
7.0									
12.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 1/29/2021

Hole Size: 6 inch
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

Project No: 105-017-010

Borehole Number: MW-14

Project: Remedial Investigation

A.K.A.:

Client: Benderson Development Company

Logged By: NAS

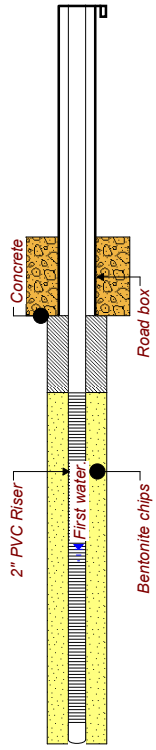
Site Location: Orchard Park, New York

Checked By:

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-3.0									
	495.2 / 0.0	Ground Surface							
		Silty sand Brown, moist, mostly silty sand, medium dense, no odors	1		.5		0.0		
	493.7 / 1.5	***Fine sand and clay*** Tan, moist, mostly fine sand, some lean clay, stiff, no odors					0.0		
2.0		***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors	2		1		0.0		
	491.2 / 4.0						0.0		
	490.7 / 4.5	***Bedrock (weathered) with sand*** Black/grey, dry, some fine sand highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.	3		1		0.0		
	490.2 / 5.0	***Bedrock (weathered)*** Dark grey, wet, highley fissel shale, very weak, fine grained thinly bedded, easliy breaks.							
7.0		Spoon refusal at 6.5 fbgs. End of Borehole							
12.0									



Drilled By: Earth Dimensions, inc.
Drill Rig Type: Dierich D120
Drill Method: 4 1/4-inch hollow stem auger.
Comments:
Drill Date(s): 1/29/2021

Hole Size: 6 inch
Stick-up: 3'
Datum: Assumed 500 ft elevation.

Sheet: 1 of 1

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-1
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Gravel*** Grey, moist, mostly subangular gravel, loose when disturbed, no odors		0.0		
	-1.5 / 1.5	***Sandy lean cleay*** Grey, moist to wet(3'), mostly medium plasticity fines, some fine sand,		0.0		
	-3.0 / 3.0	End of Test Pit		0.0		
5.0						
10.0						
15.0						
20.0						

PID VOCs ppm scale: 0 25 50 75 100

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *3*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-2
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly topsoil, trace subangular gravel, no odors		0.0		
	-1.0 1.0	***Sandy lean cleay*** Grey, moist, mostly medium plasticity fines, some fine sand,		0.0		
	-2.0 2.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-3.0 3.0	End of Test Pit				
5.0						
10.0						

PID VOCs: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/15/21*
Comments:

Length: *10*
Width: *3*
Depth: *3*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-3
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly topsoil, trace sandy lean clay, no odors		0.0		
	-1.0 / 1.0	***Sandy lean cleay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
				0.0		
	-4.0 / 4.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.5 / 4.5	End of Test Pit				
5.0						
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/13/21 ***Depth: 4.5*** ***Olfactory Observations: None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-4
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly fine sand, some silt, medium dense, no odors		0.0		
	-1.0 / 1.0	***Sandy lean cleay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
				0.0		
				0.0		
	-4.5 / 4.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.0 / 5.0	End of Test Pit				
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *5.5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-5
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silt, loose when disturbed, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
				0.0		
	-2.5 / 2.5	***Sandy lean clay*** Brown, moist, mostly medium plasticty fines, some fine sand, some shale, no odors		0.0		
				0.0		
	-4.5 / 4.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.0 / 5.0	End of Test Pit				
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration
Excavator Type: Komatsu PC-170
Excavation Date(s): 9/13/21
Comments:

Length: 10
Width: 3
Depth: 5

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-6
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silt, loose when disturbed, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
	-2.5 / 2.5	***Sandy lean clay*** Brown, moist, mostly medium plasticty fines, some fine sand, some shale, no odors		0.0		
	-4.5 / 4.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.0 / 5.0	End of Test Pit				
10.0						

PID VOCs: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration
Excavator Type: Komatsu PC-170
Excavation Date(s): 9/13/21
Comments:

Length: 10
Width: 3
Depth: 5

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-7
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Fine sand and silt*** Brown, moist, mostly fine sand, some silt, loose when disturbed, no odors		0.0		
	-2.0 / 2.0	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
	-4.0 / 4.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0				0.0		
				0.0		
	-8.0 / 8.0	End of Test Pit		0.0		
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: ***TurnKey Environmental Restoration*** ***Length:*** ***10*** ***Depth to Water:*** ***N/A***
Excavator Type: ***Komatsu PC-170*** ***Width:*** ***3*** ***Visual Impacts:*** ***None***
Excavation Date(s): ***9/13/21*** ***Depth:*** ***8*** ***Olfactory Observations:*** ***None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-8
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silt, loose when disturbed, no odors.				
	-0.5 0.5	***Silty sand with clay*** Brown , moist, mostly silt, some fine sand, trace lean clay, medium dense, no odors		0.0		
	-2.0 2.0	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
				0.0		
	-4.0 4.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.5 4.5	End of Test Pit				
5.0						
10.0						

PID VOCs ppm: 0 25 50 75 100

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/13/21 ***Depth: 8*** ***Olfactory Observations: None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-9
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown , moist, mostly silt, some fine sand,medium dense, no odors		0.0		
	-1.0 / 1.0	***Sandy lean clay*** Tan, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
	-3.0 / 3.0	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
5.0				0.0		
	-6.0 / 6.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-6.5 / 6.5	End of Test Pit				
10.0						

PID VOCs: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration
Excavator Type: Komatsu PC-170
Excavation Date(s): 9/13/21
Comments:

Length: 10
Width: 3
Depth: 6.5

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-10
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown , moist, mostly silt, some fine sand,medium dense, no odors		0.0		
	-1.0 1.0	***Sandy lean clay*** Tan, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
	-3.0 3.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-3.5 3.5	End of Test Pit				
5.0						
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *6.5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-11
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown , moist, mostly silt, some fine sand,medium dense, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
				0.0		
				0.0		
	-4.0 / 4.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.0 / 5.0	End of Test Pit		0.0		
10.0						

PID VOCs ppm scale: 0 25 50 75 100

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/13/21 ***Depth: 6.5*** ***Olfactory Observations: None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-12
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0 / 0.0	Ground Surface				
	-0.5 / 0.5	***Fine sand with silt*** Brown , moist, mostly silt, some fine sand,medium dense, no odors		0.0		
		Sandy lean clay Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
				0.0		
				0.0		
				0.0		
5.0	-5.0 / 5.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-6.0 / 6.0	End of Test Pit		0.0		
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *6*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-13
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Fine sand with silt*** Brown , moist, mostly silt, some fine sand,medium dense, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
	-2.0 / 2.0	***Sandy lean clay*** Brown/grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odor		0.0		
				0.0		
				0.0		
5.0				0.0		
	-6.0 / 6.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-6.5 / 6.5	End of Test Pit				
10.0						

Excavated By: TurnKey Environmental Restoration
Excavator Type: Komatsu PC-170
Excavation Date(s): 9/13/21
Comments:

Length: 10
Width: 3
Depth: 6.5

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-14
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0 / 0.0	Ground Surface				
	-0.5 / 0.5	***Silty sand*** Brown , moist, mostly silt, some fine sand,medium dense, no odors				
		Fine sand with clay Tan/white, moist, mostly fine sand, little thinnly bedded lean clay, no odors		0.0		
				0.0		
				0.0		
				0.0		
5.0	-5.0 / 5.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
				0.0		
	-6.5 / 6.5	End of Test Pit				
10.0						

PID VOCs ppm scale: 0 25 50 75 100

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/13/21 ***Depth: 6.5*** ***Olfactory Observations: None***
Comments:

Sheet: 1 of 1

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-15
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Fine sand with clay*** Tan/white, dry, mostly fine sand, little thinnly bedded lean clay, no odors		0.0		
	-1.0 1.0	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0 0.0		
	-3.5 3.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.5 4.5	End of Test Pit				
5.0						
10.0						

PID VOCs: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *4.5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-16
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silty sand, some subangular gravel, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
	-3.0 / 3.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.0 / 4.0	End of Test Pit		0.0		
5.0						
10.0						

PID VOCs: ppm, 0 25 50 75 100

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *4*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-17
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silty sand, some subangular gravel, no odors		0.0		
	-0.5 / 0.5	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
				0.0		
				0.0		
5.0				0.0		
				0.0		
	-6.0 / 6.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-6.5 / 6.5	End of Test Pit				
10.0						

PID VOCs: 0 25 50 75 100 ppm

Excavated By: ***TurnKey Environmental Restoration*** ***Length:*** ***10*** ***Depth to Water:*** ***N/A***
Excavator Type: ***Komatsu PC-170*** ***Width:*** ***3*** ***Visual Impacts:*** ***None***
Excavation Date(s): ***9/15/21*** ***Depth:*** ***6.5*** ***Olfactory Observations:*** ***None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-18
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silty sand, some subangular gravel, no odors		0.0		
	-0.5 / 0.5	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
	-3.0 / 3.0	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, thinly bedded, angular, stiff, no odor		0.0		
	-4.0 / 4.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.5 / 4.5	End of Test Pit				
5.0						
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/14/21 ***Depth: 4.5*** ***Olfactory Observations: None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-19
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silty sand, some subangular gravel, no odors		0.0		
	-1.0 / 1.0	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
				0.0		
				0.0		
	-4.5 / 4.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.5 / 5.5	End of Test Pit				
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/14/21 ***Depth: 5.5*** ***Olfactory Observations: None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-20
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0 / -0.3 / 0.3	***Topsoil*** Brown, moist, mostly silty sand, some subangular gravel, no odors		0.0		
		Sandy lean clay Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
				0.0		
	-4.0 / 4.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.0 / 5.0	End of Test Pit		0.0		
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/14/21 ***Depth: 5*** ***Olfactory Observations: None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-21
Logged By: NAS
Checked By: BWM

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Buffalo, NY 14218
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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly fine sand, some silt, medium dense, no odors		0.0		
	-1.5 / 1.5	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
				0.0		
				0.0		
5.0	-5.0 / 5.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-5.5 / 5.5	End of Test Pit				
10.0						

PID VOCs ppm scale: 0 25 50 75 100

Excavated By: TurnKey Environmental Restoration
Excavator Type: Komatsu PC-170
Excavation Date(s): 9/13/21
Comments:

Length: 10
Width: 3
Depth: 5.5

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG

Project No: T0105-017-010 ***Test Pit I.D.:*** TP-22

Project: 3077 Union Road Site ***Logged By:*** NAS

Client: 570 DAB 4, LLC ***Checked By:*** BWM

Site Location: Orchard Park, NY

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly fine sand, some silt, medium dense, no odors		0.0		
	-2.0 / 2.0	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
	-3.0 / 3.0	***Sandy lean clay*** Brown, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
5.0				0.0		
				0.0		
	-7.0 / 7.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-7.5 / 7.5	End of Test Pit				
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration ***Length:*** 10 ***Depth to Water:*** N/A

Excavator Type: Komatsu PC-170 ***Width:*** 3 ***Visual Impacts:*** None

Excavation Date(s): 9/13/21 ***Depth:*** 7.5 ***Olfactory Observations:*** None

Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-23
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly fine sand, some silt, medium dense, no odors		0.0		
	-2.0 / 2.0	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
	-3.0 / 3.0	***Sandy lean clay*** Brown, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
5.0				0.0		
	-6.0 / 6.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-7.0 / 7.0	End of Test Pit		0.0		
10.0						

PID VOCs: ppm, 0 25 50 75 100

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *7*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-24
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0 0.0 0.0		
	-3.0 / 3.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors				
	-3.5 / 3.5	End of Test Pit				
5.0						
10.0						

PID VOCs: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/15/21*
Comments:

Length: *10*
Width: *3*
Depth: *3.5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-25
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
	-2.0 / 2.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-2.5 / 2.5	End of Test Pit				
5.0						
10.0						

PID VOCs ppm scale: 0 25 50 75 100

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/14/21*
Comments:

Length: *10*
Width: *3*
Depth: *2.5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-26
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors		0.0		
	-1.0 / 1.0	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
	-3.0 / 3.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-3.5 / 3.5	End of Test Pit				
5.0						
10.0						

PID VOCs ppm scale: 0 25 50 75 100

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/14/21*
Comments:

Length: *10*
Width: *3*
Depth: *3.5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-27
Logged By: NAS
Checked By: BWM

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SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0 / 0.0	Ground Surface				
	0.0 / 0.0	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors		0.0		
	-1.0 / 1.0	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
				0.0		
				0.0		
				0.0		
5.0	-5.0 / 5.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-6.0 / 6.0	End of Test Pit		0.0		
10.0						

PID VOCs ppm scale: 0 25 50 75 100

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/14/21*
Comments:

Length: *10*
Width: *3*
Depth: *6*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-28
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
				0.0		
				0.0		
				0.0		
5.0	-5.0 / 5.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-6.0 / 6.0	End of Test Pit		0.0		
10.0						

Excavated By: TurnKey Environmental Restoration
Excavator Type: Komatsu PC-170
Excavation Date(s): 9/14/21
Comments:

Length: 10
Width: 3
Depth: 6

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-29
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Silty sand*** Brown, moist, mostly silty sand, medium dense, no odors				
	-0.8 / 0.8	***Sandy lean clay*** Grey, moist, mostly thinnly bedded lean clay, some fine sand, no odors		0.0		
				0.0		
				0.0		
	-3.5 / 3.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.0 / 4.0	End of Test Pit				
5.0						
10.0						

Excavated By: TurnKey Environmental Restoration
Excavator Type: Komatsu PC-170
Excavation Date(s): 9/13/21
Comments:

Length: 10
Width: 3
Depth: 4

Depth to Water: N/A
Visual Impacts: None
Olfactory Observations: None

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-30
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0 / 0.0	Ground Surface				
		Fill Brown, moist, mostly fill concrete, brick, asphalt, gravel, some fine sand and silt, loose when disturbed, no odors		0.0		
5.0				0.0		
	-9.5 / 9.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
10.0	-10.0 / 10.0	End of Test Pit				

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: TurnKey Environmental Restoration ***Length: 10*** ***Depth to Water: N/A***
Excavator Type: Komatsu PC-170 ***Width: 3*** ***Visual Impacts: None***
Excavation Date(s): 9/13/21 ***Depth: 4*** ***Olfactory Observations: None***
Comments:

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-31
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silty sand, some lean clay, medium dense, no odors		0.0		
	-1.0 / 1.0	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
	-3.0 / 3.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.0 / 4.0	End of Test Pit		0.0		
5.0						
10.0						

PID VOCs scale: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/15/21*
Comments:

Length: *10*
Width: *3*
Depth: *4*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-32
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silty sand, some lean clay, medium dense, no odors				
	-0.5 / 0.5	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, no odors		0.0		
				0.0		
	-3.0 / 3.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
	-4.0 / 4.0	End of Test Pit		0.0		
5.0						
10.0						

PID VOCs: 0 25 50 75 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/14/21*
Comments:

Length: *10*
Width: *3*
Depth: *4*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-33
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Topsoil*** Brown, moist, mostly silty sand, some lean clay, medium dense, no odors		0.0		
	-1.0 / 1.0	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, thinly bedded, no odors		0.0		
				0.0		
	-4.0 / 4.0	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.0 / 5.0	End of Test Pit				
10.0						

PID VOCs: ppm scale 0, 25, 50, 75, 100

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/14/21*
Comments:

Length: *10*
Width: *3*
Depth: *5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

TEST PIT EXCAVATION LOG

Project No: T0105-017-010
Project: 3077 Union Road Site
Client: 570 DAB 4, LLC
Site Location: Orchard Park, NY

Test Pit I.D.: TP-34
Logged By: NAS
Checked By: BWM

2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Lithologic Symbol	PID VOCs (ppm)	Lab Sample	Remarks
0.0	0.0	Ground Surface				
	0.0	***Fine sand*** Brown, moist, mostly fine sand, medium dense, no odors		0.0		
	-2.0 / 2.0	***Sandy lean clay*** Grey, moist, mostly medium plasticity fines, some fine sand, thinly bedded, no odors		0.0		
				0.0		
	-4.5 / 4.5	***Shale*** Grey, moist, mostly shale, easily broken up, no odors		0.0		
5.0	-5.0 / 5.0	End of Test Pit				
10.0						

PID VOCs scale: 0, 25, 50, 75, 100 ppm

Excavated By: *TurnKey Environmental Restoration*
Excavator Type: *Komatsu PC-170*
Excavation Date(s): *9/13/21*
Comments:

Length: *10*
Width: *3*
Depth: *5*

Depth to Water: *N/A*
Visual Impacts: *None*
Olfactory Observations: *None*

APPENDIX C

INVESTIGATION-DERIVED WASTE DISPOSAL DOCUMENTS

United States Environmental Protection Agency
RCRA SUBTITLE C SITE IDENTIFICATION FORM

1. Reason for Submittal (Select only one.)

☑	Obtaining or updating an EPA ID number for on-going regulated activities (Items 10-17 below) that will continue for a period of time.
☐	Submitting as a component of the Hazardous Waste Report for _____ (Reporting Year)
	☐ Site was a TSD facility, a reverse distributor, and/or generator of ≥ 1,000 kg of non-acute hazardous waste, > 1 kg of acute hazardous waste, or > 100 kg of acute hazardous waste spill cleanup in **one or more months of the reporting year** (or State equivalent LQG regulations)
☐	Notifying that regulated activity is no longer occurring at this Site
☐	Obtaining or updating an EPA ID number for conducting Electronic Manifest Broker activities
☐	Submitting a new or revised Part A (permit) Form

2. Site EPA ID Number

3. Site Name

3077 Union Road Site

4. Site Location Address

Street Address	**3077 Union Road**				
City, Town, or Village	**Orchard Park**			County	**Erie**
State	**New York**	Country	**United States**	Zip Code	**14127**
Latitude	**42.8010806**	Longitude	**-078.7473556**	☐ Use Lat/Long as Primary Address	

5. Site Mailing Address ☐ Same as Location Street Address

Street Address	**570 Delaware Avenue**				
City, Town, or Village	**Buffalo**				
State	**New York**	Country	**United States**	Zip Code	**14202**

6. Site Land Type

☑ Private	☐ County	☐ District	☐ Federal	☐ Tribal	☐ Municipal	☐ State	☐ Other

7. North American Industry Classification System (NAICS) Code(s) for the Site (at least 5-digit codes)

A. (Primary)	**81232**	C.	
B.	**81111**	D.	

EPA ID Number | | | | | | | | | | | | |

OMB# 2050-0024; Expires 04/30/2024

8. Site Contact Information

☐ Same as Location Address

First Name **Adam**	MI	Last Name **Harris**
Title **Project Manager**		
Street Address **570 Delaware Avenue**		
City, Town, or Village **Buffalo**		
State **New York**	Country **United States**	Zip Code **14202**
Email **ajh@benderson.com**		
Phone **(716)-886-1100**	Ext	Fax **(716)-886-2269**

9. Legal Owner and Operator of the Site

A. Name of Site's Legal Owner

☐ Same as Location Address

Full Name **570 DAB 4, LLC**	Date Became Owner (mm/dd/yyyy) **3/26/2018**

Owner Type

☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

Street Address **570 Delaware Avenue**		
City, Town, or Village **Buffalo**		
State **New York**	Country **United States**	Zip Code **14202**
Email **ajh@benderson.com**		
Phone **(716)-886-1100**	Ext	Fax **(716)-886-2269**
Comments		

B. Name of Site's Legal Operator

☐ Same as Location Address

Full Name **570 DAB 4, LLC**	Date Became Operator (mm/dd/yyyy) **3/26/2018**

Operator Type

☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

Street Address **570 Delaware Avenue**		
City, Town, or Village **Buffalo**		
State **New York**	Country **United States**	Zip Code **14202**
Email **ajh@benderson.com**		
Phone **(716)-886-1100**	Ext	Fax **(716)-886-2269**
Comments		

10. Type of Regulated Waste Activity (at your site)

Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities

☑ Y ☐ N	1. Generator of Hazardous Waste—If "Yes", mark only one of the following—a, b, c		
	☑	a. LQG	-Generates, in any calendar month, 1,000 kg/mo (2,200 lb/mo) or more of non-acute hazardous waste (includes quantities imported by importer site); or - Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lb/mo) of acute hazardous waste; or - Generates, in any calendar month or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material.
	☐	b. SQG	100 to 1,000 kg/mo (220-2,200 lb/mo) of non-acute hazardous waste and no more than 1 kg (2.2 lb) of acute hazardous waste and no more than 100 kg (220 lb) of any acute hazardous spill cleanup material.
	☐	c. VSQG	Less than or equal to 100 kg/mo (220 lb/mo) of non-acute hazardous waste.
☑ Y ☐ N	2. Short-Term Generator (generates from a short-term or one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments section. *Note: If "Yes", you MUST indicate that you are a Generator of Hazardous Waste in Item 10.A.1 above.*		
☐ Y ☑ N	3. Treater, Storer or Disposer of Hazardous Waste—Note: Part B of a hazardous waste permit is required for these activities.		
☐ Y ☑ N	4. Receives Hazardous Waste from Off-site		
☐ Y ☑ N	5 Recycler of Hazardous Waste		
	☐	a. Recycler who stores prior to recycling	
	☐	b. Recycler who does not store prior to recycling	
☐ Y ☑ N	6. Exempt Boiler and/or Industrial Furnace—If "Yes", mark all that apply.		
	☐	a. Small Quantity On-site Burner Exemption	
	☐	b. Smelting, Melting, and Refining Furnace Exemption	

B. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g. D001, D003, F007, U112). Use an additional page if more spaces are needed.

D029	**D043**					
D004						
D007						
D039						
D040						

C. Waste Codes for State Regulated (non-Federal) Hazardous Wastes. Please list the waste codes of the State hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

11. Additional Regulated Waste Activities (NOTE: Refer to your State regulations to determine if a separate permit is required.)

A. Other Waste Activities

☐ Y ☑ N	1. Transporter of Hazardous Waste—If "Yes", mark all that apply.
☐	a. Transporter
☐	b. Transfer Facility (at your site)
☐ Y ☑ N	2. Underground Injection Control
☐ Y ☑ N	3. United States Importer of Hazardous Waste
☐ Y ☑ N	4. Recognized Trader—If "Yes", mark all that apply.
☐	a. Importer
☐	b. Exporter
☐ Y ☑ N	5. Importer/Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR 266 Subpart G—If "Yes", mark all that apply.
☐	a. Importer
☐	b. Exporter

B. Universal Waste Activities

☐ Y ☑ N	1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) - If "Yes" mark all that apply. Note: Refer to your State regulations to determine what is regulated.
☐	a. Batteries
☐	b. Pesticides
☐	c. Mercury containing equipment
☐	d. Lamps
☐	e. Aerosol Cans
☐	f. Other (specify) _____
☐	g. Other (specify) _____
☐ Y ☑ N	2. Destination Facility for Universal Waste Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities

☐ Y ☑ N	1. Used Oil Transporter—If "Yes", mark all that apply.
☐	a. Transporter
☐	b. Transfer Facility (at your site)
☐ Y ☑ N	2. Used Oil Processor and/or Re-refiner—If "Yes", mark all that apply.
☐	a. Processor
☐	b. Re-refiner
☐ Y ☑ N	3. Off-Specification Used Oil Burner
☐ Y ☑ N	4. Used Oil Fuel Marketer—If "Yes", mark all that apply.
☐	a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
☐	b. Marketer Who First Claims the Used Oil Meets the Specifications

D. Pharmaceutical Activities

☐ Y ☑ N	1. Operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals—if "Yes", mark only one. Note: See the item-by-item instructions for definitions of healthcare facility and reverse distributor.
☐	a. Healthcare Facility
☐	b. Reverse Distributor
☐ Y ☑ N	2. Withdrawing from operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals. Note: You may only withdraw if you are a healthcare facility that is a VSQG for all of your hazardous waste, including hazardous waste pharmaceuticals.

12. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262, Subpart K.

☐ Y ☑ N	A. Opting into or currently operating under 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories— If "Yes", mark all that apply. Note: See the item-by-item instructions for definitions of types of eligible academic entities.
☐	1. College or University
☐	2. Teaching Hospital that is owned by or has a formal written affiliation with a college or university
☐	3. Non-profit Institute that is owned by or has a formal written affiliation with a college or university
☐ Y ☑ N	B. Withdrawing from 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories.

13. Episodic Generation

☐ Y ☑ N	Are you an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more than 60 days, that moves you to a higher generator category. If "Yes", you must fill out the Addendum for Episodic Generator.

14. LQG Consolidation of VSQG Hazardous Waste

☐ Y ☑ N	Are you an LQG notifying of consolidating VSQG Hazardous Waste Under the Control of the Same Person pursuant to 40 CFR 262.17(f)? If "Yes", you must fill out the Addendum for LQG Consolidation of VSQG hazardous waste.

15. Notification of LQG Site Closure for a Central Accumulation Area (CAA) (optional) OR Entire Facility (required)

☐ Y ☑ N	LQG Site Closure of a Central Accumulation Area (CAA) or Entire Facility.
	A. ☐ Central Accumulation Area (CAA) or ☐ Entire Facility
	B. Expected closure date: _____ mm/dd/yyyy
	C. Requesting new closure date: _____ mm/dd/yyyy
	D. Date closed : _____ mm/dd/yyyy ☐ 1. In compliance with the closure performance standards 40 CFR 262.17(a)(8) ☐ 2. Not in compliance with the closure performance standards 40 CFR 262.17(a)(8)

16. Notification of Hazardous Secondary Material (HSM) Activity

☐ Y ☑ N	Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material.

17. Electronic Manifest Broker

☐ Y ☑ N	Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator?

18. Comments (include item number for each comment)

1. The 3077 Union Road Site is being remediated under the New York State (NYS) Brownfield Cleanup Program (BCP), Site No. C915349.
2. This application is being provided to obtain an EPA ID number to the Site and to classify the applicant as a short-term large quantity generater for the duration of BCP remediation, approximately 12 months.

19. Certification I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11)**.

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy) 7/30/21
Printed Name (First, Middle Initial Last) **Adam Harris**	Title **Project Manager**
Email **ajh@benderson.com**	

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial Last)	Title
Email	

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000251389	1	800-535-5053	012366830 FLE

5. Generator's Name and Mailing Address
570 DAB 4 LLC
570 Delaware Avenue
Buffalo, NY 14202
Generator's Phone: 716-856-0635

Generator's Site Address (if different than mailing address)
570 DAB 4, LLC BCP #C915349
3077 Union Road
Orchard Park, NY 14127

6. Transporter 1 Company Name: Environmental Service Group, Inc. (NY) — 716.895.8720 — **U.S. EPA ID Number**: NYD986903904

7. Transporter 2 Company Name — **U.S. EPA ID Number**

8. Designated Facility Name and Site Address
Chemical Solvents Inc.
1010 Denison Avenue
Cleveland, OH 44109
Facility's Phone: 800-362-0893
U.S. EPA ID Number: OHD980697656

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s., 9, III, (Tetrachloroethylene, Trichloroethene)	002	DM	01000	P	F001		
						F002		
X	2. RQ, NA3082, Hazardous waste, liquid, n.o.s., 9, III, (Tetrachloroethylene, Trichloroethene)	011	DM	0605	G	F001		
						F002		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1 - 48677 - EST Weight
2 - 48676 - 004 - 85 gal Steel overpacks
ERG: 1- 171
2- 171
24 Hour Emergency Contact:
INFOTRAC (Caller Must ID ESG)
800-535-5053

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ethan D. Smith as agent for 570 DAB LLC — Signature — Month 08 Day 16 Year 21

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Sean P. Winter — Signature — Month 08 Day 16 Year 21
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. H061 3. 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name: Tom Shaw — Signature — Month 08 Day 18 Year 21

EPA Form 8700-22 (Rev. 12-77) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

APPENDIX D

LABORATORY ANALYTICAL DATA PACKAGES

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 480-180659-1
Client Project/Site: Benchmark - 3077 Union Rd

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
2/8/2021 3:24:51 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

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

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180659-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180659-1

Comments
No additional comments.

Receipt
The samples were received on 1/29/2021 4:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-567972 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: MW-8_8D 4-5 (480-180659-1) and MW-9 6-7 (480-180659-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-567972 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloro-1,2,2-trifluoroethane, Methylcyclohexane, Cyclohexane and Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect above the reporting limit for these analytes, the data have been reported. The associated samples are: MW-8_8D 4-5 (480-180659-1) and MW-9 6-7 (480-180659-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-567888 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-12 6-7 (480-180659-2).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-567888 recovered outside acceptance criteria, low biased, for 2-Hexanone and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated sample is impacted: MW-12 6-7 (480-180659-2).

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 480-567797 and analytical batch 480-567888 recovered outside control limits for the following analyte(s): 4-Methyl-2-pentanone (MIBK). 4-Methyl-2-pentaone (MIBK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The associated sample is impacted: MW-12 6-7 (480-180659-2).

Method 8260C: The following sample was analyzed using medium level soil analysis due to the nature of the sample matrix: MW-12 6-7 (480-180659-2). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-568477 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-8_8D 4-5 (480-180659-1). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-568477 recovered above the upper control limit for 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8_8D 4-5 (480-180659-1), MW-12 6-7 (480-180659-2) and MW-9 6-7 (480-180659-3).

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-568338 and analytical batch 480-568477 recovered outside

Job ID: 480-180659-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: MW-8_8D 4-5 (480-180659-1), MW-12 6-7 (480-180659-2) and MW-9 6-7 (480-180659-3). Therefore, the data has been reported.

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

GC Semi VOA
Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-567912 and analytical batch 480-568030 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected. MW-8_8D 4-5 (480-180659-1)

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

Metals
Methods 6010, 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. MW-8_8D 4-5 (480-180659-1), MW-12 6-7 (480-180659-2), MW-9 6-7 (480-180659-3), (LCDSRM 480-567998/21-A), (LCSSRM 480-567998/2-A) and (MB 480-567998/1-A)

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

LCMS
Method 537 (modified): The wide scale industrial use of PFAS compounds in everyday products makes these compounds ubiquitous. As such, laboratories must work tirelessly to minimize the impact of this upon the analytical support for PFAS determination. The laboratory uses single use supplies whenever possible and has an extensive cleaning procedure for extraction equipment that is re-used. However, despite these procedural controls laboratory artifacts are not an uncommon occurrence. Unfortunately, this was the situation with your sample(s) in question. In these circumstances (positives in method blank (MB) >RL for PFBA), the laboratory did re-extract and re-analyze your sample(s). The same or similar results for PFBA were detected which did confirm that the initially reported result for PFBA was due to laboratory artifact. Please review these results against your data quality objectives (DQO) and primary compounds of concern for the site for significance. Eurofins TestAmerica continues to evaluate its processes to reduce/eliminate PFBA in future sample sets. We do apologize for any inconvenience this may have caused: MW-8_8D 4-5 (480-180659-1) and (MB 320-457461/1-A).

Method 537 (modified): The laboratory control sample (LCS) for preparation batch 320-457461 and analytical batch 320-458296 recovered outside control limits for the following analytes: Perfluorobutanoic acid (PFBA). This analyte was biased high in the LCS and was detected in the associated sample. The sample was re-extracted with concurring results; therefore, both sets of the data have been reported.

Method 537 (modified): The wide scale industrial use of PFAS compounds in everyday products makes these compounds ubiquitous. As such, laboratories must work tirelessly to minimize the impact of this upon the analytical support for PFAS determination. The laboratory uses single use supplies whenever possible and has an extensive cleaning procedure for extraction equipment that is re-used. However, despite these procedural controls laboratory artifacts are not an uncommon occurrence. Unfortunately, this was the situation with your samples in question. In this circumstance, there were detections for Perfluorobutanoic Acid (PFBA) in the method blank (MB) greater than the reporting limit. The laboratory did re-extract and re-analyze your samples. The same or similar results for PFBA were detected which did confirm that the initially reported result for PFBA was due to laboratory artifact. Please review these results against your data quality objectives (DQO) and primary compounds of concern for the site for significance. Eurofins TestAmerica continues to evaluate its processes to reduce/eliminate PFBA in future sample sets. We do apologize for any inconvenience this may have caused. MW-8_8D 4-5 (480-180659-1), (MB 320-458463/1-A), (480-180659-A-1-C MS) and (480-180659-A-1-D MSD)

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

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-8_8D 4-5 (480-180659-1), MW-12 6-7 (480-180659-2), MW-9 6-7 (480-180659-3), (480-180659-C-1 MS) and (480-180659-C-1 MSD).

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

Client Sample ID: MW-8_8D 4-5
Lab Sample ID: 480-180659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
beta-BHC	0.91	J	2.1	0.38	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	1.05	B *+	0.24	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - RE	0.29	B	0.25	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	18300		12.7		mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.0		2.5		mg/Kg	1	☼	6010C	Total/NA
Barium	39.4	^6+	0.63		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.90		0.25		mg/Kg	1	☼	6010C	Total/NA
Calcium	6880		63.3		mg/Kg	1	☼	6010C	Total/NA
Chromium	31.0		0.63		mg/Kg	1	☼	6010C	Total/NA
Cobalt	16.4		0.63		mg/Kg	1	☼	6010C	Total/NA
Copper	23.0		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	34200		12.7		mg/Kg	1	☼	6010C	Total/NA
Lead	16.4		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	6420		25.3		mg/Kg	1	☼	6010C	Total/NA
Manganese	426		0.25		mg/Kg	1	☼	6010C	Total/NA
Nickel	52.6		6.3		mg/Kg	1	☼	6010C	Total/NA
Potassium	2970		38.0		mg/Kg	1	☼	6010C	Total/NA
Vanadium	28.3		0.63		mg/Kg	1	☼	6010C	Total/NA
Zinc	60.2		2.5		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: MW-12 6-7
Lab Sample ID: 480-180659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	78	J	100	47	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	57	J	200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	53	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	64	J	200	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	29	J	200	22	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	97	J	200	70	ug/Kg	1	☼	8270D	Total/NA
Chrysene	65	J	200	46	ug/Kg	1	☼	8270D	Total/NA
Di-n-octyl phthalate	51	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120	J	200	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	31	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	62	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Aluminum	15100		12.8		mg/Kg	1	☼	6010C	Total/NA
Arsenic	16.1		2.6		mg/Kg	1	☼	6010C	Total/NA
Barium	83.3	^6+	0.64		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.89		0.26		mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.54		0.26		mg/Kg	1	☼	6010C	Total/NA
Calcium	18200		63.9		mg/Kg	1	☼	6010C	Total/NA
Chromium	27.5		0.64		mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.4		0.64		mg/Kg	1	☼	6010C	Total/NA
Copper	71.9		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	29500		12.8		mg/Kg	1	☼	6010C	Total/NA
Lead	51.9		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	6550		25.6		mg/Kg	1	☼	6010C	Total/NA
Manganese	234		0.26		mg/Kg	1	☼	6010C	Total/NA
Nickel	91.7		6.4		mg/Kg	1	☼	6010C	Total/NA
Potassium	3380		38.4		mg/Kg	1	☼	6010C	Total/NA
Vanadium	76.7		0.64		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-12 6-7 (Continued)
Lab Sample ID: 480-180659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	277		2.6		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.048		0.024		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-9 6-7
Lab Sample ID: 480-180659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	0.56	J B	1.8	0.43	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	0.70	J	1.8	0.38	ug/Kg	1	☼	8081B	Total/NA
PCB-1260	0.11	J	0.21	0.096	mg/Kg	1	☼	8082A	Total/NA
Aluminum	9710		11.6		mg/Kg	1	☼	6010C	Total/NA
Arsenic	14.7		2.3		mg/Kg	1	☼	6010C	Total/NA
Barium	32.9	^6+	0.58		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.54		0.23		mg/Kg	1	☼	6010C	Total/NA
Calcium	22500		57.9		mg/Kg	1	☼	6010C	Total/NA
Chromium	17.2		0.58		mg/Kg	1	☼	6010C	Total/NA
Cobalt	14.3		0.58		mg/Kg	1	☼	6010C	Total/NA
Copper	56.1		1.2		mg/Kg	1	☼	6010C	Total/NA
Iron	26400		11.6		mg/Kg	1	☼	6010C	Total/NA
Lead	39.7		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	5520		23.2		mg/Kg	1	☼	6010C	Total/NA
Manganese	226		0.23		mg/Kg	1	☼	6010C	Total/NA
Nickel	58.9		5.8		mg/Kg	1	☼	6010C	Total/NA
Potassium	1890		34.8		mg/Kg	1	☼	6010C	Total/NA
Vanadium	32.4		0.58		mg/Kg	1	☼	6010C	Total/NA
Zinc	44.2		2.3		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.022		0.021		mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-8_8D 4-5
Date Collected: 01/28/21 09:50
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-1
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.38	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.84	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,1,2-Trichloroethane	ND		5.2	0.68	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,1-Dichloroethane	ND		5.2	0.64	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,1-Dichloroethene	ND		5.2	0.64	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,2-Dichlorobenzene	ND		5.2	0.41	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,3-Dichlorobenzene	ND		5.2	0.27	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,4-Dichlorobenzene	ND		5.2	0.73	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Acetone	ND		26	4.4	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Benzene	ND		5.2	0.26	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Bromodichloromethane	ND		5.2	0.70	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Bromomethane	ND		5.2	0.47	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Carbon tetrachloride	ND		5.2	0.50	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Chlorobenzene	ND		5.2	0.69	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Dibromochloromethane	ND		5.2	0.67	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Chloroform	ND		5.2	0.32	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Chloromethane	ND		5.2	0.31	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
cis-1,2-Dichloroethene	ND		5.2	0.67	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
cis-1,3-Dichloropropene	ND		5.2	0.75	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Cyclohexane	ND		5.2	0.73	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
1,2-Dibromoethane	ND		5.2	0.67	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Isopropylbenzene	ND		5.2	0.79	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Methyl acetate	ND		26	3.1	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Methyl tert-butyl ether	ND		5.2	0.51	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Methylcyclohexane	ND		5.2	0.79	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Methylene Chloride	ND		5.2	2.4	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Styrene	ND		5.2	0.26	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Tetrachloroethene	ND		5.2	0.70	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Toluene	ND		5.2	0.39	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Trichloroethene	ND		5.2	1.1	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Trichlorofluoromethane	ND		5.2	0.49	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Vinyl chloride	ND		5.2	0.64	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1
Xylenes, Total	ND		10	0.88	ug/Kg	☼	01/29/21 11:35	02/01/21 17:42	1

Client Sample ID: MW-8_8D 4-5
Date Collected: 01/28/21 09:50
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-1
Matrix: Solid
Percent Solids: 79.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*71 - 125*	*01/29/21 11:35*	*02/01/21 17:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*01/29/21 11:35*	*02/01/21 17:42*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*01/29/21 11:35*	*02/01/21 17:42*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*01/29/21 11:35*	*02/01/21 17:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	31	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2,4-Dinitrophenol	ND		2000	960	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2-Chlorophenol	ND		410	38	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2-Methylphenol	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4-Methylphenol	ND		410	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Acenaphthene	ND		210	31	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Acenaphthylene	ND		210	27	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Acetophenone	ND		210	28	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Anthracene	ND		210	52	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Atrazine	ND		210	73	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Benzaldehyde	ND		210	170	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Caprolactam	ND		210	63	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Carbazole	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Chrysene	ND		210	47	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-8_8D 4-5
Date Collected: 01/28/21 09:50
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-1
Matrix: Solid
Percent Solids: 79.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Dibenzofuran	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Fluoranthene	ND		210	22	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Fluorene	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Hexachloroethane	ND		210	27	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Isophorone	ND		210	44	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Naphthalene	ND		210	27	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Nitrobenzene	ND		210	23	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Phenanthrene	ND		210	31	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Phenol	ND		210	32	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1
Pyrene	ND		210	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*53 - 120*	*02/04/21 07:43*	*02/05/21 18:25*	*1*
Phenol-d5 (Surr)	*84*		*54 - 120*	*02/04/21 07:43*	*02/05/21 18:25*	*1*
p-Terphenyl-d14 (Surr)	*114*		*79 - 130*	*02/04/21 07:43*	*02/05/21 18:25*	*1*
2,4,6-Tribromophenol (Surr)	*130*	*S1+*	*54 - 120*	*02/04/21 07:43*	*02/05/21 18:25*	*1*
2-Fluorobiphenyl	*100*		*60 - 120*	*02/04/21 07:43*	*02/05/21 18:25*	*1*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*02/04/21 07:43*	*02/05/21 18:25*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.41	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
4,4'-DDE	ND		2.1	0.44	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
4,4'-DDT	ND		2.1	0.49	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Aldrin	ND		2.1	0.52	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
alpha-BHC	ND		2.1	0.38	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
cis-Chlordane	ND		2.1	1.0	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
beta-BHC	**0.91**	**J**	2.1	0.38	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
delta-BHC	ND		2.1	0.39	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Dieldrin	ND		2.1	0.50	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Endosulfan I	ND		2.1	0.40	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Endosulfan II	ND		2.1	0.38	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Endosulfan sulfate	ND		2.1	0.39	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Endrin	ND		2.1	0.42	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Endrin aldehyde	ND		2.1	0.54	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Endrin ketone	ND		2.1	0.52	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
gamma-BHC (Lindane)	ND		2.1	0.39	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
trans-Chlordane	ND	F2	2.1	0.67	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1

Client Sample ID: MW-8_8D 4-5
Date Collected: 01/28/21 09:50
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-1
Matrix: Solid
Percent Solids: 79.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.1	0.46	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Heptachlor epoxide	ND		2.1	0.54	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Methoxychlor	ND		2.1	0.43	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1
Toxaphene	ND		21	12	ug/Kg	☼	02/01/21 07:54	02/02/21 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*45 - 120*	*02/01/21 07:54*	*02/02/21 10:53*	*1*
Tetrachloro-m-xylene	*89*		*30 - 124*	*02/01/21 07:54*	*02/02/21 10:53*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	☼	02/02/21 07:14	02/02/21 16:07	1
PCB-1221	ND		0.28	0.055	mg/Kg	☼	02/02/21 07:14	02/02/21 16:07	1
PCB-1232	ND		0.28	0.055	mg/Kg	☼	02/02/21 07:14	02/02/21 16:07	1
PCB-1242	ND		0.28	0.055	mg/Kg	☼	02/02/21 07:14	02/02/21 16:07	1
PCB-1248	ND		0.28	0.055	mg/Kg	☼	02/02/21 07:14	02/02/21 16:07	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	02/02/21 07:14	02/02/21 16:07	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	02/02/21 07:14	02/02/21 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*02/02/21 07:14*	*02/02/21 16:07*	*1*
DCB Decachlorobiphenyl	*112*		*65 - 174*	*02/02/21 07:14*	*02/02/21 16:07*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.7	ug/Kg	☼	02/01/21 07:29	02/04/21 14:10	1
Silvex (2,4,5-TP)	ND		21	7.6	ug/Kg	☼	02/01/21 07:29	02/04/21 14:10	1
2,4-D	ND		21	13	ug/Kg	☼	02/01/21 07:29	02/04/21 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*02/01/21 07:29*	*02/04/21 14:10*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.05**	**B *+**	0.24	0.034	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluoropentanoic acid (PFPeA)	0.24		0.24	0.093	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorohexanoic acid (PFHxA)	0.24		0.24	0.051	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluoroheptanoic acid (PFHpA)	0.24		0.24	0.035	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorooctanoic acid (PFOA)	0.24		0.24	0.10	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorononanoic acid (PFNA)	0.24		0.24	0.044	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorodecanoic acid (PFDA)	0.24		0.24	0.027	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluoroundecanoic acid (PFUnA)	0.24		0.24	0.044	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorododecanoic acid (PFDoA)	0.24		0.24	0.081	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorotridecanoic acid (PFTriA)	0.24		0.24	0.062	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorotetradecanoic acid (PFTeA)	0.24		0.24	0.065	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorobutanesulfonic acid (PFBS)	0.24		0.24	0.030	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorohexanesulfonic acid (PFHxS)	0.24		0.24	0.038	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.24		0.24	0.042	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorodecanesulfonic acid (PFDS)	0.24		0.24	0.047	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
Perfluorooctanesulfonamide (FOSA)	0.24		0.24	0.099	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1

Client Sample ID: MW-8_8D 4-5
Lab Sample ID: 480-180659-1
Date Collected: 01/28/21 09:50
Matrix: Solid
Date Received: 01/29/21 16:30
Percent Solids: 79.2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.42		2.42	0.47	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.42		2.42	0.45	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
6:2 FTS	2.42		2.42	0.18	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1
8:2 FTS	2.42		2.42	0.30	ug/Kg	☼	02/01/21 12:13	02/03/21 14:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*70*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C5 PFPeA	*82*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C2 PFHxA	*92*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C4 PFHpA	*93*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C4 PFOA	*96*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C5 PFNA	*98*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C2 PFDA	*95*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C2 PFUnA	*90*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C2 PFDoA	*100*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C2 PFTeDA	*97*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C3 PFBS	*89*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
18O2 PFHxS	*86*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C4 PFOS	*88*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
13C8 FOSA	*85*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
d3-NMeFOSAA	*100*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
d5-NEtFOSAA	*99*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
M2-6:2 FTS	*105*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*
M2-8:2 FTS	*108*		*25 - 150*	*02/01/21 12:13*	*02/03/21 14:52*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.29**	**B**	0.25	0.034	ug/Kg	☼	02/03/21 19:28	02/05/21 04:17	1
Perfluorooctanesulfonic acid (PFOS)	0.61		0.61	0.25	ug/Kg	☼	02/03/21 19:28	02/05/21 04:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*71*		*25 - 150*	*02/03/21 19:28*	*02/05/21 04:17*	*1*
13C4 PFOS	*69*		*25 - 150*	*02/03/21 19:28*	*02/05/21 04:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18300**		12.7		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Antimony	ND		19.0		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Arsenic	**5.0**		2.5		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Barium	**39.4**	**^6+**	0.63		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Beryllium	**0.90**		0.25		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Cadmium	ND		0.25		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Calcium	**6880**		63.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Chromium	**31.0**		0.63		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Cobalt	**16.4**		0.63		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Copper	**23.0**		1.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Iron	**34200**		12.7		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Lead	**16.4**		1.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Magnesium	**6420**		25.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Manganese	**426**		0.25		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-8_8D 4-5
Date Collected: 01/28/21 09:50
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-1
Matrix: Solid
Percent Solids: 79.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**52.6**		6.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Potassium	**2970**		38.0		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Selenium	ND		5.1		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Silver	ND		0.76		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Sodium	ND		177		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Thallium	ND		7.6		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Vanadium	**28.3**		0.63		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1
Zinc	**60.2**		2.5		mg/Kg	☼	02/01/21 18:16	02/02/21 16:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	02/04/21 10:55	02/04/21 13:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-12 6-7
Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	51	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,1-Dichloroethane	ND		100	31	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,1-Dichloroethene	ND		100	35	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,2-Dibromo-3-Chloropropane	ND		100	51	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,2-Dichloroethane	ND		100	41	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,2-Dichloropropane	ND		100	16	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
2-Butanone (MEK)	ND		510	300	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
2-Hexanone	ND		510	210	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
4-Methyl-2-pentanone (MIBK)	ND	*-	510	32	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Acetone	ND		510	420	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Benzene	ND		100	19	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Bromodichloromethane	ND		100	20	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Bromoform	ND		100	51	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Bromomethane	ND		100	22	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Carbon disulfide	ND		100	46	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Carbon tetrachloride	ND		100	26	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Chlorobenzene	ND		100	13	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Dibromochloromethane	ND		100	49	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Chloroethane	ND		100	21	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Chloroform	ND		100	69	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Chloromethane	ND		100	24	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Cyclohexane	ND		100	22	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Dichlorodifluoromethane	ND		100	44	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Ethylbenzene	ND		100	29	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
1,2-Dibromoethane	ND		100	18	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Isopropylbenzene	ND		100	15	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Methyl acetate	ND		510	48	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Methyl tert-butyl ether	ND		100	38	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Methylcyclohexane	**78**	**J**	100	47	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Methylene Chloride	ND		100	20	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Styrene	ND		100	24	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Tetrachloroethene	ND		100	14	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Toluene	ND		100	27	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
trans-1,3-Dichloropropene	ND		100	9.9	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Trichloroethene	ND		100	28	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Trichlorofluoromethane	ND		100	47	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Vinyl chloride	ND		100	34	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1
Xylenes, Total	ND		200	56	ug/Kg	☼	01/29/21 13:22	02/01/21 10:33	1

Client Sample ID: MW-12 6-7
Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2
Matrix: Solid
Percent Solids: 82.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*50 - 149*	*01/29/21 13:22*	*02/01/21 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*53 - 146*	*01/29/21 13:22*	*02/01/21 10:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*49 - 148*	*01/29/21 13:22*	*02/01/21 10:33*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*01/29/21 13:22*	*02/01/21 10:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2-Chlorophenol	ND		400	37	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2-Methylphenol	ND		200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
2-Nitrophenol	ND		200	58	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4-Chloro-3-methylphenol	ND		200	51	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4-Chloroaniline	ND		200	51	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4-Methylphenol	ND		400	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Acenaphthene	ND		200	30	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Acenaphthylene	ND		200	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Acetophenone	ND		200	28	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Anthracene	ND		200	51	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Atrazine	ND		200	71	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Benzaldehyde	ND		200	160	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Benzo[a]anthracene	**57**	**J**	200	20	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Benzo[a]pyrene	**53**	**J**	200	30	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Benzo[b]fluoranthene	**64**	**J**	200	32	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Benzo[g,h,i]perylene	**29**	**J**	200	22	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Bis(2-ethylhexyl) phthalate	**97**	**J**	200	70	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Caprolactam	ND		200	61	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Carbazole	ND		200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Chrysene	**65**	**J**	200	46	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-12 6-7
Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2
Matrix: Solid
Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Di-n-octyl phthalate	**51**	**J**	200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Dibenzofuran	ND		200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Fluoranthene	**120**	**J**	200	22	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Fluorene	ND		200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Hexachloroethane	ND		200	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Indeno[1,2,3-cd]pyrene	**31**	**J**	200	25	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Isophorone	ND		200	43	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Naphthalene	ND		200	26	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Nitrobenzene	ND		200	23	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Phenanthrene	**62**	**J**	200	30	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Phenol	ND		200	31	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1
Pyrene	**100**	**J**	200	24	ug/Kg	☼	02/04/21 07:43	02/05/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*53 - 120*	*02/04/21 07:43*	*02/05/21 18:49*	*1*
Phenol-d5 (Surr)	*72*		*54 - 120*	*02/04/21 07:43*	*02/05/21 18:49*	*1*
p-Terphenyl-d14 (Surr)	*97*		*79 - 130*	*02/04/21 07:43*	*02/05/21 18:49*	*1*
2,4,6-Tribromophenol (Surr)	*104*		*54 - 120*	*02/04/21 07:43*	*02/05/21 18:49*	*1*
2-Fluorobiphenyl	*80*		*60 - 120*	*02/04/21 07:43*	*02/05/21 18:49*	*1*
2-Fluorophenol (Surr)	*68*		*52 - 120*	*02/04/21 07:43*	*02/05/21 18:49*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
cis-Chlordane	ND		2.0	1.0	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Endrin	ND		2.0	0.40	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
trans-Chlordane	ND		2.0	0.64	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1

Client Sample ID: MW-12 6-7
Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2
Matrix: Solid
Percent Solids: 82.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.44	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1
Toxaphene	ND		20	12	ug/Kg	☼	02/01/21 07:54	02/02/21 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*45 - 120*	*02/01/21 07:54*	*02/02/21 11:32*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*02/01/21 07:54*	*02/02/21 11:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	02/02/21 07:14	02/02/21 16:20	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	02/02/21 07:14	02/02/21 16:20	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	02/02/21 07:14	02/02/21 16:20	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	02/02/21 07:14	02/02/21 16:20	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	02/02/21 07:14	02/02/21 16:20	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	02/02/21 07:14	02/02/21 16:20	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	02/02/21 07:14	02/02/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*60 - 154*	*02/02/21 07:14*	*02/02/21 16:20*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*02/02/21 07:14*	*02/02/21 16:20*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	02/01/21 07:29	02/04/21 15:10	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	02/01/21 07:29	02/04/21 15:10	1
2,4-D	ND		20	12	ug/Kg	☼	02/01/21 07:29	02/04/21 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*02/01/21 07:29*	*02/04/21 15:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15100**		12.8		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Antimony	ND		19.2		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Arsenic	**16.1**		2.6		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Barium	**83.3**	**^6+**	0.64		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Beryllium	**0.89**		0.26		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Cadmium	**0.54**		0.26		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Calcium	**18200**		63.9		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Chromium	**27.5**		0.64		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Cobalt	**15.4**		0.64		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Copper	**71.9**		1.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Iron	**29500**		12.8		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Lead	**51.9**		1.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Magnesium	**6550**		25.6		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Manganese	**234**		0.26		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Nickel	**91.7**		6.4		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Potassium	**3380**		38.4		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Selenium	ND		5.1		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-12 6-7
Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2
Matrix: Solid
Percent Solids: 82.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.77		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Sodium	ND		179		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Thallium	ND		7.7		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Vanadium	**76.7**		0.64		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1
Zinc	**277**		2.6		mg/Kg	☼	02/01/21 18:16	02/02/21 16:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.024		mg/Kg	☼	02/04/21 10:55	02/04/21 13:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-9 6-7
Date Collected: 01/28/21 14:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-3
Matrix: Solid
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.3	0.31	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,1,2,2-Tetrachloroethane	ND		4.3	0.70	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,1,2-Trichloroethane	ND		4.3	0.56	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.99	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,1-Dichloroethane	ND		4.3	0.53	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,1-Dichloroethene	ND		4.3	0.53	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,2,4-Trichlorobenzene	ND		4.3	0.26	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,2-Dibromo-3-Chloropropane	ND		4.3	2.2	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,2-Dichlorobenzene	ND		4.3	0.34	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,2-Dichloroethane	ND		4.3	0.22	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,2-Dichloropropane	ND		4.3	2.2	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,3-Dichlorobenzene	ND		4.3	0.22	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,4-Dichlorobenzene	ND		4.3	0.61	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Acetone	ND		22	3.6	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Benzene	ND		4.3	0.21	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Bromodichloromethane	ND		4.3	0.58	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Bromoform	ND		4.3	2.2	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Bromomethane	ND		4.3	0.39	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Carbon disulfide	ND		4.3	2.2	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Carbon tetrachloride	ND		4.3	0.42	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Chlorobenzene	ND		4.3	0.57	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Dibromochloromethane	ND		4.3	0.55	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Chloroethane	ND		4.3	0.98	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Chloroform	ND		4.3	0.27	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Chloromethane	ND		4.3	0.26	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
cis-1,2-Dichloroethene	ND		4.3	0.55	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
cis-1,3-Dichloropropene	ND		4.3	0.62	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Cyclohexane	ND		4.3	0.61	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Dichlorodifluoromethane	ND		4.3	0.36	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Ethylbenzene	ND		4.3	0.30	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
1,2-Dibromoethane	ND		4.3	0.56	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Isopropylbenzene	ND		4.3	0.65	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Methyl tert-butyl ether	ND		4.3	0.43	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Methylcyclohexane	ND		4.3	0.66	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Methylene Chloride	ND		4.3	2.0	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Styrene	ND		4.3	0.22	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Tetrachloroethene	ND		4.3	0.58	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Toluene	ND		4.3	0.33	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
trans-1,2-Dichloroethene	ND		4.3	0.45	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
trans-1,3-Dichloropropene	ND		4.3	1.9	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Trichloroethene	ND		4.3	0.95	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Trichlorofluoromethane	ND		4.3	0.41	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Vinyl chloride	ND		4.3	0.53	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1
Xylenes, Total	ND		8.7	0.73	ug/Kg	☼	01/29/21 11:35	02/01/21 18:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-9 6-7
Date Collected: 01/28/21 14:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-3
Matrix: Solid
Percent Solids: 89.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*71 - 125*	*01/29/21 11:35*	*02/01/21 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*01/29/21 11:35*	*02/01/21 18:08*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*01/29/21 11:35*	*02/01/21 18:08*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*01/29/21 11:35*	*02/01/21 18:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2,4-Dinitrophenol	ND		1800	870	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2-Chlorophenol	ND		370	34	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2-Methylphenol	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4-Methylphenol	ND		370	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4-Nitroaniline	ND		370	99	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Acenaphthene	ND		190	28	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Acenaphthylene	ND		190	24	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Acetophenone	ND		190	26	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Anthracene	ND		190	47	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Atrazine	ND		190	66	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Caprolactam	ND		190	57	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Carbazole	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Chrysene	ND		190	42	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-9 6-7
Date Collected: 01/28/21 14:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-3
Matrix: Solid
Percent Solids: 89.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Dibenzofuran	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Fluoranthene	ND		190	20	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Fluorene	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Hexachloroethane	ND		190	24	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Isophorone	ND		190	40	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Naphthalene	ND		190	24	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Nitrobenzene	ND		190	21	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Phenanthrene	ND		190	28	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Phenol	ND		190	29	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1
Pyrene	ND		190	22	ug/Kg	☼	02/04/21 07:43	02/05/21 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*53 - 120*	*02/04/21 07:43*	*02/05/21 19:14*	*1*
Phenol-d5 (Surr)	*80*		*54 - 120*	*02/04/21 07:43*	*02/05/21 19:14*	*1*
p-Terphenyl-d14 (Surr)	*102*		*79 - 130*	*02/04/21 07:43*	*02/05/21 19:14*	*1*
2,4,6-Tribromophenol (Surr)	*115*		*54 - 120*	*02/04/21 07:43*	*02/05/21 19:14*	*1*
2-Fluorobiphenyl	*98*		*60 - 120*	*02/04/21 07:43*	*02/05/21 19:14*	*1*
2-Fluorophenol (Surr)	*75*		*52 - 120*	*02/04/21 07:43*	*02/05/21 19:14*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.36	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
4,4'-DDE	ND		1.8	0.39	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
4,4'-DDT	**0.56**	**J B**	1.8	0.43	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Aldrin	ND		1.8	0.45	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
alpha-BHC	ND		1.8	0.33	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
cis-Chlordane	ND		1.8	0.92	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
beta-BHC	ND		1.8	0.33	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
delta-BHC	ND		1.8	0.34	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Dieldrin	ND		1.8	0.44	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Endosulfan I	ND		1.8	0.35	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Endosulfan II	ND		1.8	0.33	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Endosulfan sulfate	ND		1.8	0.34	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Endrin	ND		1.8	0.37	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Endrin aldehyde	ND		1.8	0.47	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Endrin ketone	ND		1.8	0.45	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
gamma-BHC (Lindane)	ND		1.8	0.34	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
trans-Chlordane	ND		1.8	0.59	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1

Client Sample ID: MW-9 6-7
Lab Sample ID: 480-180659-3

Date Collected: 01/28/21 14:00
Matrix: Solid

Date Received: 01/29/21 16:30
Percent Solids: 89.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.8	0.40	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Heptachlor epoxide	ND		1.8	0.48	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Methoxychlor	**0.70**	**J**	1.8	0.38	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1
Toxaphene	ND		18	11	ug/Kg	☼	02/01/21 07:54	02/02/21 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*45 - 120*	*02/01/21 07:54*	*02/02/21 11:52*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*02/01/21 07:54*	*02/02/21 11:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg	☼	02/02/21 07:14	02/02/21 16:32	1
PCB-1221	ND		0.21	0.040	mg/Kg	☼	02/02/21 07:14	02/02/21 16:32	1
PCB-1232	ND		0.21	0.040	mg/Kg	☼	02/02/21 07:14	02/02/21 16:32	1
PCB-1242	ND		0.21	0.040	mg/Kg	☼	02/02/21 07:14	02/02/21 16:32	1
PCB-1248	ND		0.21	0.040	mg/Kg	☼	02/02/21 07:14	02/02/21 16:32	1
PCB-1254	ND		0.21	0.096	mg/Kg	☼	02/02/21 07:14	02/02/21 16:32	1
PCB-1260	**0.11**	**J**	0.21	0.096	mg/Kg	☼	02/02/21 07:14	02/02/21 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*60 - 154*	*02/02/21 07:14*	*02/02/21 16:32*	*1*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*02/02/21 07:14*	*02/02/21 16:32*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	02/01/21 07:29	02/04/21 15:40	1
Silvex (2,4,5-TP)	ND		18	6.6	ug/Kg	☼	02/01/21 07:29	02/04/21 15:40	1
2,4-D	ND		18	11	ug/Kg	☼	02/01/21 07:29	02/04/21 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*02/01/21 07:29*	*02/04/21 15:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9710**		11.6		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Antimony	ND		17.4		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Arsenic	**14.7**		2.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Barium	**32.9**	**^6+**	0.58		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Beryllium	**0.54**		0.23		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Cadmium	ND		0.23		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Calcium	**22500**		57.9		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Chromium	**17.2**		0.58		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Cobalt	**14.3**		0.58		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Copper	**56.1**		1.2		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Iron	**26400**		11.6		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Lead	**39.7**		1.2		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Magnesium	**5520**		23.2		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Manganese	**226**		0.23		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Nickel	**58.9**		5.8		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Potassium	**1890**		34.8		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Selenium	ND		4.6		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-9 6-7
Date Collected: 01/28/21 14:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-3
Matrix: Solid
Percent Solids: 89.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.70		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Sodium	ND		162		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Thallium	ND		7.0		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Vanadium	**32.4**		0.58		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1
Zinc	**44.2**		2.3		mg/Kg	☼	02/01/21 18:16	02/02/21 16:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.021		mg/Kg	☼	02/04/21 10:55	02/04/21 13:15	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-180659-1	MW-8_8D 4-5	98	108	103	96
480-180659-3	MW-9 6-7	100	108	101	100
LCS 480-567779/1-A	Lab Control Sample	99	103	100	100
MB 480-567779/2-A	Method Blank	98	103	100	99

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-149)	(53-146)	(49-148)	(60-140)
480-180659-2	MW-12 6-7	102	103	96	101
LCS 480-567797/1-A	Lab Control Sample	102	97	98	99
LCSD 480-567797/2-A	Lab Control Sample Dup	102	93	96	98
MB 480-567797/3-A	Method Blank	102	100	99	96

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(53-120)	(54-120)	(79-130)	(54-120)	(60-120)	(52-120)
480-180659-1	MW-8_8D 4-5	80	84	114	130 S1+	100	78
480-180659-1 MS	MW-8_8D 4-5	83	86	104	113	94	79
480-180659-1 MSD	MW-8_8D 4-5	83	85	110	119	92	77
480-180659-2	MW-12 6-7	68	72	97	104	80	68
480-180659-3	MW-9 6-7	85	80	102	115	98	75
LCS 480-568338/2-A	Lab Control Sample	82	79	108	129 S1+	92	72
MB 480-568338/1-A	Method Blank	80	82	109	114	94	77

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(45-120)	(30-124)
480-180659-1	MW-8_8D 4-5	85	89
480-180659-1 MS	MW-8_8D 4-5	100	90
480-180659-1 MSD	MW-8_8D 4-5	90	97
480-180659-2	MW-12 6-7	90	86
480-180659-3	MW-9 6-7	80	86
LCS 480-567912/2-A	Lab Control Sample	106	94
MB 480-567912/1-A	Method Blank	103	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(60-154)	(65-174)
480-180659-1	MW-8_8D 4-5	110	112
480-180659-2	MW-12 6-7	109	110
480-180659-3	MW-9 6-7	95	105
LCS 480-568029/2-A	Lab Control Sample	137	144
MB 480-568029/1-A	Method Blank	107	117

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(28-129)
480-180659-1	MW-8_8D 4-5	66
480-180659-1 MS	MW-8_8D 4-5	62
480-180659-1 MSD	MW-8_8D 4-5	63
480-180659-2	MW-12 6-7	73
480-180659-3	MW-9 6-7	66
LCS 480-567905/2-A	Lab Control Sample	53
MB 480-567905/1-A	Method Blank	60

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-180659-1	MW-8_8D 4-5	70	82	92	93	96	98	95	90
480-180659-1 - RE	MW-8_8D 4-5	71							
480-180659-1 MS - RE	MW-8_8D 4-5	66							
480-180659-1 MSD - RE	MW-8_8D 4-5	64							
LCS 320-457461/2-A	Lab Control Sample	77	92	91	98	97	96	93	92
LCS 320-458463/2-A	Lab Control Sample	79							
MB 320-457461/1-A	Method Blank	77	89	91	97	98	96	93	93
MB 320-458463/1-A	Method Blank	62							

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
480-180659-1	MW-8_8D 4-5	100	97	89	86	88	85	100	99
480-180659-1 - RE	MW-8_8D 4-5					69			
480-180659-1 MS - RE	MW-8_8D 4-5					68			
480-180659-1 MSD - RE	MW-8_8D 4-5					62			
LCS 320-457461/2-A	Lab Control Sample	99	92	92	91	92	85	77	78
LCS 320-458463/2-A	Lab Control Sample					88			
MB 320-457461/1-A	Method Blank	100	94	94	94	91	84	53	54
MB 320-458463/1-A	Method Blank					69			

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-180659-1	MW-8_8D 4-5	105	108
480-180659-1 - RE	MW-8_8D 4-5		
480-180659-1 MS - RE	MW-8_8D 4-5		
480-180659-1 MSD - RE	MW-8_8D 4-5		
LCS 320-457461/2-A	Lab Control Sample	137	82
LCS 320-458463/2-A	Lab Control Sample		
MB 320-457461/1-A	Method Blank	139	81
MB 320-458463/1-A	Method Blank		

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

M282FTS = M2-8:2 FTS

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

Lab Sample ID: MB 480-567779/2-A
Matrix: Solid
Analysis Batch: 567710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
2-Hexanone	ND		25	2.5	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Acetone	ND		25	4.2	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Benzene	ND		5.0	0.25	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Bromoform	ND		5.0	2.5	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Bromomethane	ND		5.0	0.45	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Chloroethane	ND		5.0	1.1	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Chloroform	ND		5.0	0.31	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Chloromethane	ND		5.0	0.30	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Cyclohexane	ND		5.0	0.70	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Methyl acetate	ND		25	3.0	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Styrene	ND		5.0	0.25	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Toluene	ND		5.0	0.38	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Trichloroethene	ND		5.0	1.1	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		01/29/21 11:35	01/29/21 12:35	1
Xylenes, Total	ND		10	0.84	ug/Kg		01/29/21 11:35	01/29/21 12:35	1

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

Lab Sample ID: MB 480-567779/2-A
Matrix: Solid
Analysis Batch: 567710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567779

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*71 - 125*	*01/29/21 11:35*	*01/29/21 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*01/29/21 11:35*	*01/29/21 12:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*01/29/21 11:35*	*01/29/21 12:35*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*01/29/21 11:35*	*01/29/21 12:35*	*1*

Lab Sample ID: LCS 480-567779/1-A
Matrix: Solid
Analysis Batch: 567710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	46.9		ug/Kg		94	77 - 121
1,1,2,2-Tetrachloroethane	50.0	57.5		ug/Kg		115	80 - 120
1,1,2-Trichloroethane	50.0	54.2		ug/Kg		108	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	36.1		ug/Kg		72	60 - 140
1,1-Dichloroethane	50.0	47.6		ug/Kg		95	73 - 126
1,1-Dichloroethene	50.0	42.6		ug/Kg		85	59 - 125
1,2,4-Trichlorobenzene	50.0	47.3		ug/Kg		95	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	57.9		ug/Kg		116	63 - 124
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	51.5		ug/Kg		103	77 - 122
1,2-Dichloropropane	50.0	52.0		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	52.2		ug/Kg		104	74 - 120
1,4-Dichlorobenzene	50.0	52.4		ug/Kg		105	73 - 120
2-Butanone (MEK)	250	273		ug/Kg		109	70 - 134
2-Hexanone	250	306		ug/Kg		122	59 - 130
4-Methyl-2-pentanone (MIBK)	250	271		ug/Kg		108	65 - 133
Acetone	250	225		ug/Kg		90	61 - 137
Benzene	50.0	48.6		ug/Kg		97	79 - 127
Bromodichloromethane	50.0	52.4		ug/Kg		105	80 - 122
Bromoform	50.0	59.1		ug/Kg		118	68 - 126
Bromomethane	50.0	47.5		ug/Kg		95	37 - 149
Carbon disulfide	50.0	41.1		ug/Kg		82	64 - 131
Carbon tetrachloride	50.0	45.4		ug/Kg		91	75 - 135
Chlorobenzene	50.0	51.0		ug/Kg		102	76 - 124
Dibromochloromethane	50.0	54.4		ug/Kg		109	76 - 125
Chloroethane	50.0	45.7		ug/Kg		91	69 - 135
Chloroform	50.0	48.2		ug/Kg		96	80 - 120
Chloromethane	50.0	41.9		ug/Kg		84	63 - 127
cis-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	55.9		ug/Kg		112	80 - 120
Cyclohexane	50.0	38.9		ug/Kg		78	65 - 120
Dichlorodifluoromethane	50.0	33.6		ug/Kg		67	57 - 142
Ethylbenzene	50.0	49.7		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	54.5		ug/Kg		109	78 - 120
Isopropylbenzene	50.0	49.9		ug/Kg		100	72 - 120
Methyl acetate	100	106		ug/Kg		106	55 - 136
Methyl tert-butyl ether	50.0	49.4		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	39.5		ug/Kg		79	60 - 140

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

Lab Sample ID: LCS 480-567779/1-A
Matrix: Solid
Analysis Batch: 567710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	49.8		ug/Kg		100	61 - 127
Styrene	50.0	53.0		ug/Kg		106	80 - 120
Tetrachloroethene	50.0	45.2		ug/Kg		90	74 - 122
Toluene	50.0	49.2		ug/Kg		98	74 - 128
trans-1,2-Dichloroethene	50.0	47.1		ug/Kg		94	78 - 126
trans-1,3-Dichloropropene	50.0	57.7		ug/Kg		115	73 - 123
Trichloroethene	50.0	47.6		ug/Kg		95	77 - 129
Trichlorofluoromethane	50.0	40.9		ug/Kg		82	65 - 146
Vinyl chloride	50.0	42.6		ug/Kg		85	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Lab Sample ID: MB 480-567797/3-A
Matrix: Solid
Analysis Batch: 567888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,1-Dichloroethane	ND		100	31	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,1-Dichloroethene	ND		100	35	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,2-Dichloroethane	ND		100	41	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,2-Dichloropropane	ND		100	16	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
2-Butanone (MEK)	ND		500	300	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
2-Hexanone	ND		500	210	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Acetone	ND		500	410	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Benzene	ND		100	19	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Bromodichloromethane	ND		100	20	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Bromoform	ND		100	50	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Bromomethane	ND		100	22	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Carbon disulfide	ND		100	46	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Carbon tetrachloride	ND		100	26	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Chlorobenzene	ND		100	13	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Dibromochloromethane	ND		100	48	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Chloroethane	ND		100	21	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Chloroform	ND		100	69	ug/Kg		01/29/21 13:22	02/01/21 09:50	1

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

Lab Sample ID: MB 480-567797/3-A
Matrix: Solid
Analysis Batch: 567888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		100	24	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Cyclohexane	ND		100	22	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Ethylbenzene	ND		100	29	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
1,2-Dibromoethane	ND		100	18	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Isopropylbenzene	ND		100	15	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Methyl acetate	ND		500	48	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Methylcyclohexane	ND		100	47	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Methylene Chloride	ND		100	20	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Styrene	ND		100	24	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Tetrachloroethene	ND		100	13	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Toluene	ND		100	27	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Trichloroethene	ND		100	28	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Trichlorofluoromethane	ND		100	47	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Vinyl chloride	ND		100	34	ug/Kg		01/29/21 13:22	02/01/21 09:50	1
Xylenes, Total	ND		200	55	ug/Kg		01/29/21 13:22	02/01/21 09:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*50 - 149*	*01/29/21 13:22*	*02/01/21 09:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*53 - 146*	*01/29/21 13:22*	*02/01/21 09:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*	*01/29/21 13:22*	*02/01/21 09:50*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*01/29/21 13:22*	*02/01/21 09:50*	*1*

Lab Sample ID: LCS 480-567797/1-A
Matrix: Solid
Analysis Batch: 567888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2850		ug/Kg		114	68 - 130
1,1,2,2-Tetrachloroethane	2500	2310		ug/Kg		92	73 - 120
1,1,2-Trichloroethane	2500	2610		ug/Kg		104	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	3020		ug/Kg		121	10 - 179
1,1-Dichloroethane	2500	2700		ug/Kg		108	78 - 121
1,1-Dichloroethene	2500	2680		ug/Kg		107	48 - 133
1,2,4-Trichlorobenzene	2500	2740		ug/Kg		110	70 - 140
1,2-Dibromo-3-Chloropropane	2500	1860		ug/Kg		75	56 - 122
1,2-Dichlorobenzene	2500	2700		ug/Kg		108	78 - 125
1,2-Dichloroethane	2500	2730		ug/Kg		109	74 - 127
1,2-Dichloropropane	2500	2590		ug/Kg		104	80 - 120
1,3-Dichlorobenzene	2500	2720		ug/Kg		109	80 - 120
1,4-Dichlorobenzene	2500	2700		ug/Kg		108	80 - 120
2-Butanone (MEK)	12500	9970		ug/Kg		80	54 - 149
2-Hexanone	12500	10100		ug/Kg		81	59 - 127

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

Lab Sample ID: LCS 480-567797/1-A
Matrix: Solid
Analysis Batch: 567888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567797

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4-Methyl-2-pentanone (MIBK)			12500	10500		ug/Kg		84	74 - 120		
Acetone			12500	11200		ug/Kg		90	47 - 141		
Benzene			2500	2690		ug/Kg		107	77 - 125		
Bromodichloromethane			2500	2520		ug/Kg		101	71 - 121		
Bromoform			2500	2280		ug/Kg		91	48 - 125		
Bromomethane			2500	2250		ug/Kg		90	39 - 149		
Carbon disulfide			2500	2490		ug/Kg		100	40 - 136		
Carbon tetrachloride			2500	2790		ug/Kg		112	54 - 135		
Chlorobenzene			2500	2760		ug/Kg		110	76 - 126		
Dibromochloromethane			2500	2400		ug/Kg		96	64 - 120		
Chloroethane			2500	2220		ug/Kg		89	23 - 150		
Chloroform			2500	2560		ug/Kg		102	78 - 120		
Chloromethane			2500	2240		ug/Kg		89	61 - 124		
cis-1,2-Dichloroethene			2500	2750		ug/Kg		110	79 - 124		
cis-1,3-Dichloropropene			2500	2600		ug/Kg		104	75 - 121		
Cyclohexane			2500	2850		ug/Kg		114	49 - 129		
Dichlorodifluoromethane			2500	2110		ug/Kg		84	10 - 150		
Ethylbenzene			2500	2790		ug/Kg		112	78 - 124		
1,2-Dibromoethane			2500	2570		ug/Kg		103	80 - 120		
Isopropylbenzene			2500	2750		ug/Kg		110	76 - 120		
Methyl acetate			5000	4880		ug/Kg		98	71 - 123		
Methyl tert-butyl ether			2500	2530		ug/Kg		101	67 - 137		
Methylcyclohexane			2500	2940		ug/Kg		118	50 - 130		
Methylene Chloride			2500	2700		ug/Kg		108	75 - 118		
Styrene			2500	2720		ug/Kg		109	80 - 120		
Tetrachloroethene			2500	2730		ug/Kg		109	73 - 133		
Toluene			2500	2740		ug/Kg		109	75 - 124		
trans-1,2-Dichloroethene			2500	2670		ug/Kg		107	74 - 129		
trans-1,3-Dichloropropene			2500	2540		ug/Kg		102	73 - 120		
Trichloroethene			2500	2630		ug/Kg		105	75 - 131		
Trichlorofluoromethane			2500	2720		ug/Kg		109	29 - 158		
Vinyl chloride			2500	2550		ug/Kg		102	59 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*50 - 149*
1,2-Dichloroethane-d4 (Surr)	*97*		*53 - 146*
4-Bromofluorobenzene (Surr)	*98*		*49 - 148*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: LCSD 480-567797/2-A
Matrix: Solid
Analysis Batch: 567888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567797

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			2500	2700		ug/Kg		108	68 - 130	5	20
1,1,2,2-Tetrachloroethane			2500	2010		ug/Kg		80	73 - 120	14	20
1,1,2-Trichloroethane			2500	2560		ug/Kg		102	80 - 120	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			2500	2920		ug/Kg		117	10 - 179	3	20

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

Lab Sample ID: LCSD 480-567797/2-A
Matrix: Solid
Analysis Batch: 567888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567797

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			2500	2570		ug/Kg		103	78 - 121	5	20
1,1-Dichloroethene			2500	2600		ug/Kg		104	48 - 133	3	20
1,2,4-Trichlorobenzene			2500	2540		ug/Kg		102	70 - 140	8	20
1,2-Dibromo-3-Chloropropane			2500	1660		ug/Kg		67	56 - 122	11	20
1,2-Dichlorobenzene			2500	2600		ug/Kg		104	78 - 125	4	20
1,2-Dichloroethane			2500	2570		ug/Kg		103	74 - 127	6	20
1,2-Dichloropropane			2500	2430		ug/Kg		97	80 - 120	6	20
1,3-Dichlorobenzene			2500	2640		ug/Kg		105	80 - 120	3	20
1,4-Dichlorobenzene			2500	2660		ug/Kg		106	80 - 120	1	20
2-Butanone (MEK)			12500	8700		ug/Kg		70	54 - 149	14	20
2-Hexanone			12500	8250		ug/Kg		66	59 - 127	20	20
4-Methyl-2-pentanone (MIBK)			12500	8720	*-	ug/Kg		70	74 - 120	18	20
Acetone			12500	9560		ug/Kg		77	47 - 141	16	20
Benzene			2500	2600		ug/Kg		104	77 - 125	3	20
Bromodichloromethane			2500	2400		ug/Kg		96	71 - 121	5	20
Bromoform			2500	2070		ug/Kg		83	48 - 125	9	20
Bromomethane			2500	2190		ug/Kg		87	39 - 149	3	20
Carbon disulfide			2500	2450		ug/Kg		98	40 - 136	2	20
Carbon tetrachloride			2500	2730		ug/Kg		109	54 - 135	2	20
Chlorobenzene			2500	2680		ug/Kg		107	76 - 126	3	20
Dibromochloromethane			2500	2280		ug/Kg		91	64 - 120	5	20
Chloroethane			2500	2090		ug/Kg		83	23 - 150	6	20
Chloroform			2500	2450		ug/Kg		98	78 - 120	4	20
Chloromethane			2500	2190		ug/Kg		88	61 - 124	2	20
cis-1,2-Dichloroethene			2500	2560		ug/Kg		102	79 - 124	7	20
cis-1,3-Dichloropropene			2500	2430		ug/Kg		97	75 - 121	7	20
Cyclohexane			2500	2790		ug/Kg		112	49 - 129	2	20
Dichlorodifluoromethane			2500	1820		ug/Kg		73	10 - 150	15	20
Ethylbenzene			2500	2710		ug/Kg		109	78 - 124	3	20
1,2-Dibromoethane			2500	2420		ug/Kg		97	80 - 120	6	20
Isopropylbenzene			2500	2660		ug/Kg		106	76 - 120	3	20
Methyl acetate			5000	4220		ug/Kg		84	71 - 123	15	20
Methyl tert-butyl ether			2500	2360		ug/Kg		95	67 - 137	7	20
Methylcyclohexane			2500	2790		ug/Kg		112	50 - 130	5	20
Methylene Chloride			2500	2580		ug/Kg		103	75 - 118	5	20
Styrene			2500	2730		ug/Kg		109	80 - 120	0	20
Tetrachloroethene			2500	2730		ug/Kg		109	73 - 133	0	20
Toluene			2500	2700		ug/Kg		108	75 - 124	1	20
trans-1,2-Dichloroethene			2500	2580		ug/Kg		103	74 - 129	3	20
trans-1,3-Dichloropropene			2500	2470		ug/Kg		99	73 - 120	3	20
Trichloroethene			2500	2590		ug/Kg		103	75 - 131	2	20
Trichlorofluoromethane			2500	2660		ug/Kg		106	29 - 158	2	20
Vinyl chloride			2500	2430		ug/Kg		97	59 - 124	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*50 - 149*
1,2-Dichloroethane-d4 (Surr)	*93*		*53 - 146*
4-Bromofluorobenzene (Surr)	*96*		*49 - 148*

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

Lab Sample ID: LCSD 480-567797/2-A
Matrix: Solid
Analysis Batch: 567888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567797

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	98		60 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-568338/1-A
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2-Chloronaphthalene	ND		170	28	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2-Chlorophenol	ND		330	31	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2-Methylphenol	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2-Nitroaniline	ND		330	25	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
2-Nitrophenol	ND		170	48	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
3-Nitroaniline	ND		330	47	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4-Chloroaniline	ND		170	42	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4-Methylphenol	ND		330	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4-Nitroaniline	ND		330	88	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
4-Nitrophenol	ND		330	120	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Acenaphthene	ND		170	25	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Acenaphthylene	ND		170	22	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Acetophenone	ND		170	23	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Anthracene	ND		170	42	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Atrazine	ND		170	59	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Benzaldehyde	ND		170	130	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/04/21 07:43	02/05/21 16:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-568338/1-A
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		170	51	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Carbazole	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Chrysene	ND		170	38	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Dibenzofuran	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Diethyl phthalate	ND		170	22	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Fluoranthene	ND		170	18	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Fluorene	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Hexachloroethane	ND		170	22	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Isophorone	ND		170	36	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Naphthalene	ND		170	22	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Nitrobenzene	ND		170	19	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Pentachlorophenol	ND		330	170	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Phenanthrene	ND		170	25	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Phenol	ND		170	26	ug/Kg		02/04/21 07:43	02/05/21 16:47	1
Pyrene	ND		170	20	ug/Kg		02/04/21 07:43	02/05/21 16:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*53 - 120*	*02/04/21 07:43*	*02/05/21 16:47*	*1*
Phenol-d5 (Surr)	*82*		*54 - 120*	*02/04/21 07:43*	*02/05/21 16:47*	*1*
p-Terphenyl-d14 (Surr)	*109*		*79 - 130*	*02/04/21 07:43*	*02/05/21 16:47*	*1*
2,4,6-Tribromophenol (Surr)	*114*		*54 - 120*	*02/04/21 07:43*	*02/05/21 16:47*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*02/04/21 07:43*	*02/05/21 16:47*	*1*
2-Fluorophenol (Surr)	*77*		*52 - 120*	*02/04/21 07:43*	*02/05/21 16:47*	*1*

Lab Sample ID: LCS 480-568338/2-A
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1660	1220		ug/Kg		73	59 - 120
bis (2-chloroisopropyl) ether	1660	857		ug/Kg		52	44 - 120
2,4,5-Trichlorophenol	1660	1340		ug/Kg		81	59 - 126
2,4,6-Trichlorophenol	1660	1330		ug/Kg		80	59 - 123
2,4-Dichlorophenol	1660	1240		ug/Kg		75	61 - 120
2,4-Dimethylphenol	1660	1220		ug/Kg		74	59 - 120
2,4-Dinitrophenol	3320	2650		ug/Kg		80	41 - 146
2,4-Dinitrotoluene	1660	1400		ug/Kg		85	63 - 120
2,6-Dinitrotoluene	1660	1320		ug/Kg		79	66 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-568338/2-A
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	1660	1220		ug/Kg		74	57 - 120
2-Chlorophenol	1660	1020		ug/Kg		62	53 - 120
2-Methylphenol	1660	1090		ug/Kg		66	54 - 120
2-Methylnaphthalene	1660	1120		ug/Kg		67	59 - 120
2-Nitroaniline	1660	1290		ug/Kg		78	61 - 120
2-Nitrophenol	1660	1170		ug/Kg		71	56 - 120
3,3'-Dichlorobenzidine	3320	2810		ug/Kg		85	54 - 120
3-Nitroaniline	1660	928		ug/Kg		56	48 - 120
4,6-Dinitro-2-methylphenol	3320	2930		ug/Kg		88	49 - 122
4-Bromophenyl phenyl ether	1660	1530		ug/Kg		92	58 - 120
4-Chloro-3-methylphenol	1660	1290		ug/Kg		78	61 - 120
4-Chloroaniline	1660	949		ug/Kg		57	38 - 120
4-Chlorophenyl phenyl ether	1660	1250		ug/Kg		76	63 - 124
4-Methylphenol	1660	1090		ug/Kg		66	55 - 120
4-Nitroaniline	1660	1190		ug/Kg		72	56 - 120
4-Nitrophenol	3320	3510		ug/Kg		106	43 - 147
Acenaphthene	1660	1190		ug/Kg		72	62 - 120
Acenaphthylene	1660	1210		ug/Kg		73	58 - 121
Acetophenone	1660	1090		ug/Kg		66	54 - 120
Anthracene	1660	1370		ug/Kg		83	62 - 120
Atrazine	3320	3420		ug/Kg		103	60 - 127
Benzaldehyde	3320	1980		ug/Kg		60	10 - 150
Benzo[a]anthracene	1660	1370		ug/Kg		83	65 - 120
Benzo[a]pyrene	1660	1380		ug/Kg		83	64 - 120
Benzo[b]fluoranthene	1660	1320		ug/Kg		80	64 - 120
Benzo[g,h,i]perylene	1660	1350		ug/Kg		82	45 - 145
Benzo[k]fluoranthene	1660	1410		ug/Kg		85	65 - 120
Bis(2-chloroethoxy)methane	1660	1060		ug/Kg		64	55 - 120
Bis(2-chloroethyl)ether	1660	927		ug/Kg		56	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1570		ug/Kg		95	61 - 133
Butyl benzyl phthalate	1660	1490		ug/Kg		90	61 - 129
Caprolactam	3320	2820		ug/Kg		85	47 - 120
Carbazole	1660	1440		ug/Kg		87	65 - 120
Chrysene	1660	1320		ug/Kg		80	64 - 120
Dibenz(a,h)anthracene	1660	1380		ug/Kg		83	54 - 132
Di-n-butyl phthalate	1660	1550		ug/Kg		94	58 - 130
Di-n-octyl phthalate	1660	1520		ug/Kg		92	57 - 133
Dibenzofuran	1660	1300		ug/Kg		78	63 - 120
Diethyl phthalate	1660	1400		ug/Kg		84	66 - 120
Dimethyl phthalate	1660	1380		ug/Kg		83	65 - 124
Fluoranthene	1660	1420		ug/Kg		85	62 - 120
Fluorene	1660	1260		ug/Kg		76	63 - 120
Hexachlorobenzene	1660	1500		ug/Kg		90	60 - 120
Hexachlorobutadiene	1660	1360		ug/Kg		82	45 - 120
Hexachlorocyclopentadiene	1660	1170		ug/Kg		70	47 - 120
Hexachloroethane	1660	959		ug/Kg		58	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1360		ug/Kg		82	56 - 134
Isophorone	1660	1160		ug/Kg		70	56 - 120
N-Nitrosodi-n-propylamine	1660	983		ug/Kg		59	52 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-568338/2-A
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiphenylamine	1660	1370		ug/Kg		82	51 - 128
Naphthalene	1660	1120		ug/Kg		68	55 - 120
Nitrobenzene	1660	1060		ug/Kg		64	54 - 120
Pentachlorophenol	3320	2690		ug/Kg		81	51 - 120
Phenanthrene	1660	1340		ug/Kg		81	60 - 120
Phenol	1660	961		ug/Kg		58	53 - 120
Pyrene	1660	1390		ug/Kg		84	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*
Phenol-d5 (Surr)	*79*		*54 - 120*
p-Terphenyl-d14 (Surr)	*108*		*79 - 130*
2,4,6-Tribromophenol (Surr)	*129*	*S1+*	*54 - 120*
2-Fluorobiphenyl	*92*		*60 - 120*
2-Fluorophenol (Surr)	*72*		*52 - 120*

Lab Sample ID: 480-180659-1 MS
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 568338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		2070	1620		ug/Kg	☼	78	58 - 120
bis (2-chloroisopropyl) ether	ND		2070	1120		ug/Kg	☼	54	31 - 120
2,4,5-Trichlorophenol	ND		2070	1810		ug/Kg	☼	88	46 - 120
2,4,6-Trichlorophenol	ND		2070	1750		ug/Kg	☼	84	41 - 123
2,4-Dichlorophenol	ND		2070	1640		ug/Kg	☼	79	45 - 120
2,4-Dimethylphenol	ND		2070	1610		ug/Kg	☼	78	52 - 120
2,4-Dinitrophenol	ND		4140	2980		ug/Kg	☼	72	41 - 146
2,4-Dinitrotoluene	ND		2070	1720		ug/Kg	☼	83	63 - 125
2,6-Dinitrotoluene	ND		2070	1590		ug/Kg	☼	77	66 - 120
2-Chloronaphthalene	ND		2070	1650		ug/Kg	☼	80	57 - 120
2-Chlorophenol	ND		2070	1420		ug/Kg	☼	69	43 - 120
2-Methylphenol	ND		2070	1470		ug/Kg	☼	71	48 - 120
2-Methylnaphthalene	ND		2070	1480		ug/Kg	☼	71	55 - 120
2-Nitroaniline	ND		2070	1660		ug/Kg	☼	80	61 - 120
2-Nitrophenol	ND		2070	1500		ug/Kg	☼	73	37 - 120
3,3'-Dichlorobenzidine	ND		4140	3600		ug/Kg	☼	87	37 - 126
3-Nitroaniline	ND		2070	1430		ug/Kg	☼	69	48 - 120
4,6-Dinitro-2-methylphenol	ND		4140	3210		ug/Kg	☼	78	23 - 149
4-Bromophenyl phenyl ether	ND		2070	1720		ug/Kg	☼	83	58 - 120
4-Chloro-3-methylphenol	ND		2070	1660		ug/Kg	☼	80	49 - 125
4-Chloroaniline	ND		2070	1300		ug/Kg	☼	63	38 - 120
4-Chlorophenyl phenyl ether	ND		2070	1730		ug/Kg	☼	84	63 - 124
4-Methylphenol	ND		2070	1480		ug/Kg	☼	71	50 - 120
4-Nitroaniline	ND		2070	1580		ug/Kg	☼	76	47 - 120
4-Nitrophenol	ND		4140	4300		ug/Kg	☼	104	31 - 147
Acenaphthene	ND		2070	1610		ug/Kg	☼	78	60 - 120
Acenaphthylene	ND		2070	1600		ug/Kg	☼	77	58 - 121

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-180659-1 MS
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 568338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	ND		2070	1510		ug/Kg	☼	73	47 - 120
Anthracene	ND		2070	1590		ug/Kg	☼	77	62 - 120
Atrazine	ND		4140	4350		ug/Kg	☼	105	60 - 150
Benzaldehyde	ND		4140	2970		ug/Kg	☼	72	10 - 150
Benzo[a]anthracene	ND		2070	1670		ug/Kg	☼	81	65 - 120
Benzo[a]pyrene	ND		2070	1670		ug/Kg	☼	81	64 - 120
Benzo[b]fluoranthene	ND		2070	1780		ug/Kg	☼	86	10 - 150
Benzo[g,h,i]perylene	ND		2070	1670		ug/Kg	☼	81	45 - 145
Benzo[k]fluoranthene	ND		2070	1570		ug/Kg	☼	76	23 - 150
Bis(2-chloroethoxy)methane	ND		2070	1360		ug/Kg	☼	66	52 - 120
Bis(2-chloroethyl)ether	ND		2070	1290		ug/Kg	☼	62	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2070	1860		ug/Kg	☼	90	61 - 133
Butyl benzyl phthalate	ND		2070	1770		ug/Kg	☼	85	61 - 120
Caprolactam	ND		4140	3460		ug/Kg	☼	84	37 - 133
Carbazole	ND		2070	1580		ug/Kg	☼	77	59 - 120
Chrysene	ND		2070	1660		ug/Kg	☼	80	64 - 120
Dibenz(a,h)anthracene	ND		2070	1710		ug/Kg	☼	83	54 - 132
Di-n-butyl phthalate	ND		2070	1750		ug/Kg	☼	85	58 - 130
Di-n-octyl phthalate	ND		2070	1810		ug/Kg	☼	88	57 - 133
Dibenzofuran	ND		2070	1700		ug/Kg	☼	82	62 - 120
Diethyl phthalate	ND		2070	1860		ug/Kg	☼	90	66 - 120
Dimethyl phthalate	ND		2070	1720		ug/Kg	☼	83	65 - 124
Fluoranthene	ND		2070	1640		ug/Kg	☼	79	62 - 120
Fluorene	ND		2070	1600		ug/Kg	☼	77	63 - 120
Hexachlorobenzene	ND		2070	1820		ug/Kg	☼	88	60 - 120
Hexachlorobutadiene	ND		2070	1720		ug/Kg	☼	83	45 - 120
Hexachlorocyclopentadiene	ND		2070	1570		ug/Kg	☼	76	31 - 120
Hexachloroethane	ND		2070	1370		ug/Kg	☼	66	21 - 120
Indeno[1,2,3-cd]pyrene	ND		2070	1710		ug/Kg	☼	83	56 - 134
Isophorone	ND		2070	1480		ug/Kg	☼	71	56 - 120
N-Nitrosodi-n-propylamine	ND		2070	1390		ug/Kg	☼	67	46 - 120
N-Nitrosodiphenylamine	ND		2070	1520		ug/Kg	☼	73	20 - 128
Naphthalene	ND		2070	1460		ug/Kg	☼	71	46 - 120
Nitrobenzene	ND		2070	1390		ug/Kg	☼	67	49 - 120
Pentachlorophenol	ND		4140	3070		ug/Kg	☼	74	25 - 136
Phenanthrene	ND		2070	1530		ug/Kg	☼	74	60 - 122
Phenol	ND		2070	1310		ug/Kg	☼	63	50 - 120
Pyrene	ND		2070	1720		ug/Kg	☼	83	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*83*		*53 - 120*
Phenol-d5 (Surr)	*86*		*54 - 120*
p-Terphenyl-d14 (Surr)	*104*		*79 - 130*
2,4,6-Tribromophenol (Surr)	*113*		*54 - 120*
2-Fluorobiphenyl	*94*		*60 - 120*
2-Fluorophenol (Surr)	*79*		*52 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-180659-1 MSD
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 568338

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		2060	1550		ug/Kg	☼	75	58 - 120	5	20
bis (2-chloroisopropyl) ether	ND		2060	1030		ug/Kg	☼	50	31 - 120	8	24
2,4,5-Trichlorophenol	ND		2060	1750		ug/Kg	☼	85	46 - 120	3	18
2,4,6-Trichlorophenol	ND		2060	1790		ug/Kg	☼	87	41 - 123	2	19
2,4-Dichlorophenol	ND		2060	1590		ug/Kg	☼	77	45 - 120	3	19
2,4-Dimethylphenol	ND		2060	1590		ug/Kg	☼	77	52 - 120	2	42
2,4-Dinitrophenol	ND		4120	2890		ug/Kg	☼	70	41 - 146	3	22
2,4-Dinitrotoluene	ND		2060	1810		ug/Kg	☼	88	63 - 125	5	20
2,6-Dinitrotoluene	ND		2060	1740		ug/Kg	☼	85	66 - 120	9	15
2-Chloronaphthalene	ND		2060	1500		ug/Kg	☼	73	57 - 120	9	21
2-Chlorophenol	ND		2060	1370		ug/Kg	☼	66	43 - 120	4	25
2-Methylphenol	ND		2060	1460		ug/Kg	☼	71	48 - 120	1	27
2-Methylnaphthalene	ND		2060	1430		ug/Kg	☼	69	55 - 120	3	21
2-Nitroaniline	ND		2060	1610		ug/Kg	☼	78	61 - 120	3	15
2-Nitrophenol	ND		2060	1530		ug/Kg	☼	74	37 - 120	2	18
3,3'-Dichlorobenzidine	ND		4120	3760		ug/Kg	☼	91	37 - 126	5	25
3-Nitroaniline	ND		2060	1440		ug/Kg	☼	70	48 - 120	1	19
4,6-Dinitro-2-methylphenol	ND		4120	3510		ug/Kg	☼	85	23 - 149	9	15
4-Bromophenyl phenyl ether	ND		2060	1780		ug/Kg	☼	86	58 - 120	3	15
4-Chloro-3-methylphenol	ND		2060	1750		ug/Kg	☼	85	49 - 125	6	27
4-Chloroaniline	ND		2060	1320		ug/Kg	☼	64	38 - 120	1	22
4-Chlorophenyl phenyl ether	ND		2060	1650		ug/Kg	☼	80	63 - 124	5	16
4-Methylphenol	ND		2060	1460		ug/Kg	☼	71	50 - 120	1	24
4-Nitroaniline	ND		2060	1490		ug/Kg	☼	72	47 - 120	6	24
4-Nitrophenol	ND		4120	4320		ug/Kg	☼	105	31 - 147	0	25
Acenaphthene	ND		2060	1550		ug/Kg	☼	75	60 - 120	4	35
Acenaphthylene	ND		2060	1520		ug/Kg	☼	74	58 - 121	5	18
Acetophenone	ND		2060	1380		ug/Kg	☼	67	47 - 120	9	20
Anthracene	ND		2060	1710		ug/Kg	☼	83	62 - 120	7	15
Atrazine	ND		4120	4470		ug/Kg	☼	109	60 - 150	3	20
Benzaldehyde	ND		4120	2730		ug/Kg	☼	66	10 - 150	8	20
Benzo[a]anthracene	ND		2060	1720		ug/Kg	☼	84	65 - 120	3	15
Benzo[a]pyrene	ND		2060	1730		ug/Kg	☼	84	64 - 120	4	15
Benzo[b]fluoranthene	ND		2060	1930		ug/Kg	☼	94	10 - 150	8	15
Benzo[g,h,i]perylene	ND		2060	1750		ug/Kg	☼	85	45 - 145	5	15
Benzo[k]fluoranthene	ND		2060	1610		ug/Kg	☼	78	23 - 150	3	22
Bis(2-chloroethoxy)methane	ND		2060	1310		ug/Kg	☼	64	52 - 120	4	17
Bis(2-chloroethyl)ether	ND		2060	1180		ug/Kg	☼	57	45 - 120	9	21
Bis(2-ethylhexyl) phthalate	ND		2060	1900		ug/Kg	☼	92	61 - 133	2	15
Butyl benzyl phthalate	ND		2060	1870		ug/Kg	☼	91	61 - 120	5	16
Caprolactam	ND		4120	3550		ug/Kg	☼	86	37 - 133	3	20
Carbazole	ND		2060	1700		ug/Kg	☼	83	59 - 120	7	20
Chrysene	ND		2060	1640		ug/Kg	☼	80	64 - 120	1	15
Dibenz(a,h)anthracene	ND		2060	1810		ug/Kg	☼	88	54 - 132	6	15
Di-n-butyl phthalate	ND		2060	1860		ug/Kg	☼	90	58 - 130	6	15
Di-n-octyl phthalate	ND		2060	1860		ug/Kg	☼	90	57 - 133	3	16
Dibenzofuran	ND		2060	1640		ug/Kg	☼	80	62 - 120	3	15
Diethyl phthalate	ND		2060	1790		ug/Kg	☼	87	66 - 120	4	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-180659-1 MSD
Matrix: Solid
Analysis Batch: 568477

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 568338

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate	ND		2060	1720		ug/Kg	☼	84	65 - 124	0	15
Fluoranthene	ND		2060	1770		ug/Kg	☼	86	62 - 120	8	15
Fluorene	ND		2060	1620		ug/Kg	☼	79	63 - 120	2	15
Hexachlorobenzene	ND		2060	1790		ug/Kg	☼	87	60 - 120	2	15
Hexachlorobutadiene	ND		2060	1590		ug/Kg	☼	77	45 - 120	8	44
Hexachlorocyclopentadiene	ND		2060	1490		ug/Kg	☼	72	31 - 120	6	49
Hexachloroethane	ND		2060	1180		ug/Kg	☼	57	21 - 120	15	46
Indeno[1,2,3-cd]pyrene	ND		2060	1780		ug/Kg	☼	87	56 - 134	4	15
Isophorone	ND		2060	1480		ug/Kg	☼	72	56 - 120	0	17
N-Nitrosodi-n-propylamine	ND		2060	1330		ug/Kg	☼	65	46 - 120	5	31
N-Nitrosodiphenylamine	ND		2060	1620		ug/Kg	☼	79	20 - 128	6	15
Naphthalene	ND		2060	1400		ug/Kg	☼	68	46 - 120	4	29
Nitrobenzene	ND		2060	1340		ug/Kg	☼	65	49 - 120	4	24
Pentachlorophenol	ND		4120	3280		ug/Kg	☼	80	25 - 136	7	35
Phenanthrene	ND		2060	1640		ug/Kg	☼	80	60 - 122	7	15
Phenol	ND		2060	1290		ug/Kg	☼	63	50 - 120	2	35
Pyrene	ND		2060	1770		ug/Kg	☼	86	61 - 133	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*83*		*53 - 120*
Phenol-d5 (Surr)	*85*		*54 - 120*
p-Terphenyl-d14 (Surr)	*110*		*79 - 130*
2,4,6-Tribromophenol (Surr)	*119*		*54 - 120*
2-Fluorobiphenyl	*92*		*60 - 120*
2-Fluorophenol (Surr)	*77*		*52 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-567912/1-A
Matrix: Solid
Analysis Batch: 568030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
4,4'-DDT	0.479	J	1.7	0.39	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Aldrin	ND		1.7	0.41	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
alpha-BHC	ND		1.7	0.30	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
cis-Chlordane	ND		1.7	0.82	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
beta-BHC	ND		1.7	0.30	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
delta-BHC	ND		1.7	0.31	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Dieldrin	ND		1.7	0.40	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Endosulfan I	ND		1.7	0.32	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Endosulfan II	ND		1.7	0.30	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Endrin	ND		1.7	0.33	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Endrin ketone	ND		1.7	0.41	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		02/01/21 07:54	02/02/21 09:35	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-567912/1-A
Matrix: Solid
Analysis Batch: 568030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		1.7	0.53	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Heptachlor	ND		1.7	0.36	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Methoxychlor	ND		1.7	0.34	ug/Kg		02/01/21 07:54	02/02/21 09:35	1
Toxaphene	ND		17	9.6	ug/Kg		02/01/21 07:54	02/02/21 09:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*45 - 120*	*02/01/21 07:54*	*02/02/21 09:35*	*1*
Tetrachloro-m-xylene	*88*		*30 - 124*	*02/01/21 07:54*	*02/02/21 09:35*	*1*

Lab Sample ID: LCS 480-567912/2-A
Matrix: Solid
Analysis Batch: 568030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.5	16.4		ug/Kg		99	56 - 120
4,4'-DDE	16.5	12.8		ug/Kg		77	44 - 120
4,4'-DDT	16.5	14.7		ug/Kg		89	38 - 120
Aldrin	16.5	12.1		ug/Kg		73	38 - 120
alpha-BHC	16.5	12.2		ug/Kg		74	39 - 120
cis-Chlordane	16.5	13.2		ug/Kg		80	47 - 120
beta-BHC	16.5	14.1		ug/Kg		85	40 - 120
delta-BHC	16.5	13.9		ug/Kg		84	45 - 120
Dieldrin	16.5	17.1		ug/Kg		103	58 - 120
Endosulfan I	16.5	15.8		ug/Kg		96	49 - 120
Endosulfan II	16.5	16.8		ug/Kg		102	55 - 120
Endosulfan sulfate	16.5	16.6		ug/Kg		101	49 - 124
Endrin	16.5	16.2		ug/Kg		98	58 - 120
Endrin aldehyde	16.5	13.6		ug/Kg		82	37 - 121
Endrin ketone	16.5	15.6		ug/Kg		94	46 - 123
gamma-BHC (Lindane)	16.5	13.1		ug/Kg		79	50 - 120
trans-Chlordane	16.5	15.0		ug/Kg		91	48 - 120
Heptachlor	16.5	13.0		ug/Kg		79	50 - 120
Heptachlor epoxide	16.5	15.6		ug/Kg		95	50 - 120
Methoxychlor	16.5	15.7		ug/Kg		95	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*45 - 120*
Tetrachloro-m-xylene	*94*		*30 - 124*

Lab Sample ID: 480-180659-1 MS
Matrix: Solid
Analysis Batch: 568030

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 567912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		20.8	17.2		ug/Kg	☼	83	37 - 126
4,4'-DDE	ND		20.8	13.8		ug/Kg	☼	66	34 - 120
4,4'-DDT	ND		20.8	16.9		ug/Kg	☼	81	43 - 123

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-180659-1 MS
Matrix: Solid
Analysis Batch: 568030

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 567912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		20.8	14.5		ug/Kg	☼	70	37 - 125
alpha-BHC	ND		20.8	13.7		ug/Kg	☼	66	39 - 120
cis-Chlordane	ND		20.8	14.0		ug/Kg	☼	67	35 - 120
beta-BHC	0.91	J	20.8	16.0		ug/Kg	☼	73	36 - 120
delta-BHC	ND		20.8	16.4		ug/Kg	☼	79	34 - 120
Dieldrin	ND		20.8	19.6		ug/Kg	☼	94	45 - 120
Endosulfan I	ND		20.8	17.0		ug/Kg	☼	82	39 - 120
Endosulfan II	ND		20.8	19.3		ug/Kg	☼	93	34 - 126
Endosulfan sulfate	ND		20.8	16.1		ug/Kg	☼	77	27 - 130
Endrin	ND		20.8	18.4		ug/Kg	☼	89	47 - 121
Endrin aldehyde	ND		20.8	15.8		ug/Kg	☼	76	33 - 123
Endrin ketone	ND		20.8	18.5		ug/Kg	☼	89	43 - 126
gamma-BHC (Lindane)	ND		20.8	15.0		ug/Kg	☼	72	50 - 120
trans-Chlordane	ND	F2	20.8	16.4		ug/Kg	☼	79	31 - 120
Heptachlor	ND		20.8	15.0		ug/Kg	☼	72	42 - 120
Heptachlor epoxide	ND		20.8	17.1		ug/Kg	☼	82	40 - 120
Methoxychlor	ND		20.8	17.7		ug/Kg	☼	85	44 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*45 - 120*
Tetrachloro-m-xylene	*90*		*30 - 124*

Lab Sample ID: 480-180659-1 MSD
Matrix: Solid
Analysis Batch: 568030

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 567912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		20.9	19.3		ug/Kg	☼	92	37 - 126	11	21
4,4'-DDE	ND		20.9	15.7		ug/Kg	☼	75	34 - 120	13	18
4,4'-DDT	ND		20.9	17.9		ug/Kg	☼	86	43 - 123	6	25
Aldrin	ND		20.9	15.5		ug/Kg	☼	74	37 - 125	7	12
alpha-BHC	ND		20.9	14.7		ug/Kg	☼	70	39 - 120	7	15
cis-Chlordane	ND		20.9	16.4		ug/Kg	☼	79	35 - 120	16	23
beta-BHC	0.91	J	20.9	18.2		ug/Kg	☼	83	36 - 120	13	19
delta-BHC	ND		20.9	17.3		ug/Kg	☼	83	34 - 120	5	14
Dieldrin	ND		20.9	19.4		ug/Kg	☼	93	45 - 120	1	12
Endosulfan I	ND		20.9	18.3		ug/Kg	☼	88	39 - 120	7	18
Endosulfan II	ND		20.9	20.2		ug/Kg	☼	97	34 - 126	5	26
Endosulfan sulfate	ND		20.9	19.2		ug/Kg	☼	92	27 - 130	18	35
Endrin	ND		20.9	18.9		ug/Kg	☼	91	47 - 121	3	20
Endrin aldehyde	ND		20.9	16.5		ug/Kg	☼	79	33 - 123	5	47
Endrin ketone	ND		20.9	18.9		ug/Kg	☼	91	43 - 126	2	37
gamma-BHC (Lindane)	ND		20.9	16.1		ug/Kg	☼	77	50 - 120	7	12
trans-Chlordane	ND	F2	20.9	19.4	F2	ug/Kg	☼	93	31 - 120	17	15
Heptachlor	ND		20.9	15.7		ug/Kg	☼	75	42 - 120	5	22
Heptachlor epoxide	ND		20.9	18.5		ug/Kg	☼	88	40 - 120	8	15
Methoxychlor	ND		20.9	18.4		ug/Kg	☼	88	44 - 150	4	24

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-180659-1 MSD
Matrix: Solid
Analysis Batch: 568030

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 567912

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	90		45 - 120
Tetrachloro-m-xylene	97		30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-568029/1-A
Matrix: Solid
Analysis Batch: 568144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.039	mg/Kg		02/02/21 07:14	02/02/21 15:05	1
PCB-1221	ND		0.20	0.039	mg/Kg		02/02/21 07:14	02/02/21 15:05	1
PCB-1232	ND		0.20	0.039	mg/Kg		02/02/21 07:14	02/02/21 15:05	1
PCB-1242	ND		0.20	0.039	mg/Kg		02/02/21 07:14	02/02/21 15:05	1
PCB-1248	ND		0.20	0.039	mg/Kg		02/02/21 07:14	02/02/21 15:05	1
PCB-1254	ND		0.20	0.092	mg/Kg		02/02/21 07:14	02/02/21 15:05	1
PCB-1260	ND		0.20	0.092	mg/Kg		02/02/21 07:14	02/02/21 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		60 - 154	02/02/21 07:14	02/02/21 15:05	1
DCB Decachlorobiphenyl	117		65 - 174	02/02/21 07:14	02/02/21 15:05	1

Lab Sample ID: LCS 480-568029/2-A
Matrix: Solid
Analysis Batch: 568144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.75	2.25		mg/Kg		128	51 - 185
PCB-1260	1.75	2.31		mg/Kg		132	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	137		60 - 154
DCB Decachlorobiphenyl	144		65 - 174

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-567905/1-A
Matrix: Solid
Analysis Batch: 568380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		02/01/21 07:29	02/04/21 12:11	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		02/01/21 07:29	02/04/21 12:11	1
2,4-D	ND		17	10	ug/Kg		02/01/21 07:29	02/04/21 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	60		28 - 129	02/01/21 07:29	02/04/21 12:11	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-567905/2-A
Matrix: Solid
Analysis Batch: 568380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567905

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			66.1	45.6		ug/Kg		69	41 - 120		
Silvex (2,4,5-TP)			66.1	43.3		ug/Kg		66	39 - 125		
2,4-D			66.1	43.2		ug/Kg		65	40 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*53*		*28 - 129*

Lab Sample ID: 480-180659-1 MS
Matrix: Solid
Analysis Batch: 568380

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 567905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T	ND		82.8	59.5		ug/Kg	☼	72	29 - 123		
Silvex (2,4,5-TP)	ND		82.8	57.4		ug/Kg	☼	69	22 - 140		
2,4-D	ND		82.8	55.9		ug/Kg	☼	68	32 - 115		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*62*		*28 - 129*

Lab Sample ID: 480-180659-1 MSD
Matrix: Solid
Analysis Batch: 568380

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 567905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		81.8	59.1		ug/Kg	☼	72	29 - 123	1	50
Silvex (2,4,5-TP)	ND		81.8	57.5		ug/Kg	☼	70	22 - 140	0	50
2,4-D	ND		81.8	55.7		ug/Kg	☼	68	32 - 115	0	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*63*		*28 - 129*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-457461/1-A
Matrix: Solid
Analysis Batch: 458296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.947		0.20	0.028	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluoropentanoic acid (PFPeA)	0.20		0.20	0.077	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorohexanoic acid (PFHxA)	0.20		0.20	0.042	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluoroheptanoic acid (PFHpA)	0.20		0.20	0.029	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorooctanoic acid (PFOA)	0.20		0.20	0.086	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorononanoic acid (PFNA)	0.20		0.20	0.036	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorodecanoic acid (PFDA)	0.20		0.20	0.022	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluoroundecanoic acid (PFUnA)	0.20		0.20	0.036	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorododecanoic acid (PFDoA)	0.20		0.20	0.067	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorotridecanoic acid (PFTriA)	0.20		0.20	0.051	ug/Kg		02/01/21 12:13	02/03/21 12:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-457461/1-A
Matrix: Solid
Analysis Batch: 458296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.20		0.20	0.054	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorobutanesulfonic acid (PFBS)	0.20		0.20	0.025	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.20		0.20	0.031	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.20		0.20	0.035	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorodecanesulfonic acid (PFDS)	0.20		0.20	0.039	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
Perfluorooctanesulfonamide (FOSA)	0.20		0.20	0.082	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00		2.00	0.39	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00		2.00	0.37	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
6:2 FTS	2.00		2.00	0.15	ug/Kg		02/01/21 12:13	02/03/21 12:51	1
8:2 FTS	2.00		2.00	0.25	ug/Kg		02/01/21 12:13	02/03/21 12:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*77*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C5 PFPeA	*89*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C2 PFHxA	*91*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C4 PFHpA	*97*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C4 PFOA	*98*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C5 PFNA	*96*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C2 PFDA	*93*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C2 PFUnA	*93*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C2 PFDoA	*100*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C3 PFBS	*94*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
18O2 PFHxS	*94*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C4 PFOS	*91*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
13C8 FOSA	*84*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
d3-NMeFOSAA	*53*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
d5-NEtFOSAA	*54*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
M2-6:2 FTS	*139*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*
M2-8:2 FTS	*81*		*25 - 150*	*02/01/21 12:13*	*02/03/21 12:51*	*1*

Lab Sample ID: LCS 320-457461/2-A
Matrix: Solid
Analysis Batch: 458296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.837	*+	ug/Kg		142	76 - 136
Perfluoropentanoic acid (PFPeA)	2.00	1.899		ug/Kg		95	69 - 129
Perfluorohexanoic acid (PFHxA)	2.00	2.150		ug/Kg		108	71 - 131
Perfluoroheptanoic acid (PFHpA)	2.00	2.230		ug/Kg		112	71 - 131
Perfluorooctanoic acid (PFOA)	2.00	2.162		ug/Kg		108	72 - 132
Perfluorononanoic acid (PFNA)	2.00	2.023		ug/Kg		101	73 - 133
Perfluorodecanoic acid (PFDA)	2.00	2.191		ug/Kg		110	72 - 132
Perfluoroundecanoic acid (PFUnA)	2.00	2.077		ug/Kg		104	66 - 126
Perfluorododecanoic acid (PFDoA)	2.00	2.117		ug/Kg		106	71 - 131

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-457461/2-A
Matrix: Solid
Analysis Batch: 458296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotridecanoic acid (PFTriA)	2.00	1.930		ug/Kg		97	71 - 131
Perfluorotetradecanoic acid (PFTeA)	2.00	2.039		ug/Kg		102	67 - 127
Perfluorobutanesulfonic acid (PFBS)	1.77	1.959		ug/Kg		111	69 - 129
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.835		ug/Kg		101	62 - 122
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.115		ug/Kg		111	76 - 136
Perfluorodecanesulfonic acid (PFDS)	1.93	1.972		ug/Kg		102	71 - 131
Perfluorooctanesulfonamide (FOSA)	2.00	2.464		ug/Kg		123	77 - 137
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.926	J	ug/Kg		96	72 - 132
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.075		ug/Kg		104	72 - 132
6:2 FTS	1.90	1.978	J	ug/Kg		104	73 - 139
8:2 FTS	1.92	2.047		ug/Kg		107	75 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*77*		*25 - 150*
13C5 PFPeA	*92*		*25 - 150*
13C2 PFHxA	*91*		*25 - 150*
13C4 PFHpA	*98*		*25 - 150*
13C4 PFOA	*97*		*25 - 150*
13C5 PFNA	*96*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C2 PFUnA	*92*		*25 - 150*
13C2 PFDoA	*99*		*25 - 150*
13C2 PFTeDA	*92*		*25 - 150*
13C3 PFBS	*92*		*25 - 150*
18O2 PFHxS	*91*		*25 - 150*
13C4 PFOS	*92*		*25 - 150*
13C8 FOSA	*85*		*25 - 150*
d3-NMeFOSAA	*77*		*25 - 150*
d5-NEtFOSAA	*78*		*25 - 150*
M2-6:2 FTS	*137*		*25 - 150*
M2-8:2 FTS	*82*		*25 - 150*

Lab Sample ID: MB 320-458463/1-A
Matrix: Solid
Analysis Batch: 458936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 458463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.422		0.20	0.028	ug/Kg		02/03/21 19:28	02/05/21 03:59	1
Perfluorooctanesulfonic acid (PFOS)	0.50		0.50	0.20	ug/Kg		02/03/21 19:28	02/05/21 03:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*62*		*25 - 150*	*02/03/21 19:28*	*02/05/21 03:59*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-458463/1-A
Matrix: Solid
Analysis Batch: 458936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 458463

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	69		25 - 150	02/03/21 19:28	02/05/21 03:59	1

Lab Sample ID: LCS 320-458463/2-A
Matrix: Solid
Analysis Batch: 458936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 458463

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorobutanoic acid (PFBA)			2.00	2.366		ug/Kg		118	76 - 136		
Perfluorooctanesulfonic acid (PFOS)			1.86	1.919		ug/Kg		103	68 - 141		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	79		25 - 150
13C4 PFOS	88		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Lab Sample ID: 480-180659-1 MS
Matrix: Solid
Analysis Batch: 458936

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 458463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorobutanoic acid (PFBA) - RE	0.29	B	2.45	2.815		ug/Kg	☼	103	76 - 136		
Perfluorooctanesulfonic acid (PFOS) - RE	0.61		2.28	2.294		ug/Kg	☼	101	68 - 141		

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA - RE	66		25 - 150
13C4 PFOS - RE	68		25 - 150

Lab Sample ID: 480-180659-1 MSD
Matrix: Solid
Analysis Batch: 458936

Client Sample ID: MW-8_8D 4-5
Prep Type: Total/NA
Prep Batch: 458463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA) - RE	0.29	B	2.38	2.471		ug/Kg	☼	92	76 - 136	13	30
Perfluorooctanesulfonic acid (PFOS) - RE	0.61		2.21	2.190		ug/Kg	☼	99	68 - 141	5	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA - RE	64		25 - 150
13C4 PFOS - RE	62		25 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-567998/1-A
Matrix: Solid
Analysis Batch: 568225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.3		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Antimony	ND		15.5		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Arsenic	ND		2.1		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Barium	ND	^6+	0.52		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Beryllium	ND		0.21		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Cadmium	ND		0.21		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Calcium	ND		51.7		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Chromium	ND		0.52		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Cobalt	ND		0.52		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Copper	ND		1.0		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Iron	ND		10.3		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Lead	ND		1.0		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Magnesium	ND		20.7		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Manganese	ND		0.21		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Nickel	ND		5.2		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Potassium	ND		31.0		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Selenium	ND		4.1		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Silver	ND		0.62		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Sodium	ND		145		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Thallium	ND		6.2		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Vanadium	ND		0.52		mg/Kg		02/01/21 18:16	02/02/21 14:31	1
Zinc	ND		2.1		mg/Kg		02/01/21 18:16	02/02/21 14:31	1

Lab Sample ID: LCDSRM 480-567998/21-A
Matrix: Solid
Analysis Batch: 568225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567998

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			8190	9690		mg/Kg		118.3	50.1 - 150.2	1	20
Antimony			110	86.99		mg/Kg		79.1	22.2 - 254.5	0	20
Arsenic			162	151.0		mg/Kg		93.2	70.4 - 130.2	5	20
Barium			138	122.1	^6+	mg/Kg		88.5	74.6 - 124.6	6	20
Beryllium			157	142.0		mg/Kg		90.4	75.2 - 125.5	4	20
Cadmium			135	126.0		mg/Kg		93.4	74.8 - 124.4	5	20
Calcium			4790	4398		mg/Kg		91.8	72.7 - 127.3	2	20
Chromium			117	108.5		mg/Kg		92.8	70.1 - 129.9	4	20
Cobalt			92.6	92.57		mg/Kg		100	75.1 - 125.3	2	20
Copper			143	129.8		mg/Kg		90.8	74.8 - 124.5	4	20
Iron			15100	14920		mg/Kg		98.8	37.2 - 162.9	0	20
Lead			77.6	79.46		mg/Kg		102.4	68.8 - 131.4	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCDSRM 480-567998/21-A
Matrix: Solid
Analysis Batch: 568225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567998

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium	2320	2287		mg/Kg		98.6	62.1 - 137.9	2	20
Manganese	319	293.2		mg/Kg		91.9	74.9 - 125.1	2	20
Nickel	79.9	81.84		mg/Kg		102.4	70.0 - 130.2	2	20
Potassium	2050	2103		mg/Kg		102.6	59.5 - 141.0	1	20
Selenium	172	162.1		mg/Kg		94.3	68.0 - 132.6	3	20
Silver	24.7	22.10		mg/Kg		89.5	67.2 - 133.2	7	20
Sodium	137	142.4		mg/Kg		103.9	35.8 - 164.2	10	20
Thallium	88.0	89.48		mg/Kg		101.7	66.0 - 134.1	8	20
Vanadium	99.9	97.01		mg/Kg		97.1	67.4 - 132.1	1	20
Zinc	312	265.4		mg/Kg		85.1	69.9 - 129.8	3	20

Lab Sample ID: LCSSRM 480-567998/2-A
Matrix: Solid
Analysis Batch: 568225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567998

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	9837		mg/Kg		120.1	50.1 - 150.2
Antimony	110	86.66		mg/Kg		78.8	22.2 - 254.5
Arsenic	162	158.2		mg/Kg		97.7	70.4 - 130.2
Barium	138	129.6	^6+	mg/Kg		93.9	74.6 - 124.6
Beryllium	157	147.3		mg/Kg		93.8	75.2 - 125.5
Cadmium	135	132.0		mg/Kg		97.8	74.8 - 124.4
Calcium	4790	4493		mg/Kg		93.8	72.7 - 127.3
Chromium	117	113.2		mg/Kg		96.8	70.1 - 129.9
Cobalt	92.6	94.51		mg/Kg		102.1	75.1 - 125.3
Copper	143	135.6		mg/Kg		94.8	74.8 - 124.5
Iron	15100	14960		mg/Kg		99.1	37.2 - 162.9
Lead	77.6	81.97		mg/Kg		105.6	68.8 - 131.4
Magnesium	2320	2332		mg/Kg		100.5	62.1 - 137.9
Manganese	319	298.7		mg/Kg		93.6	74.9 - 125.1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-567998/2-A
Matrix: Solid
Analysis Batch: 568225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567998

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	79.9	83.71		mg/Kg		104.8	70.0 - 130.2
Potassium	2050	2092		mg/Kg		102.1	59.5 - 141.0
Selenium	172	167.8		mg/Kg		97.6	68.0 - 132.6
Silver	24.7	23.76		mg/Kg		96.2	67.2 - 133.2
Sodium	137	158.0		mg/Kg		115.4	35.8 - 164.2
Thallium	88.0	96.69		mg/Kg		109.9	66.0 - 134.1
Vanadium	99.9	98.35		mg/Kg		98.4	67.4 - 132.1
Zinc	312	272.7		mg/Kg		87.4	69.9 - 129.8

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-568289/1-A
Matrix: Solid
Analysis Batch: 568410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017		mg/Kg		02/04/21 10:55	02/04/21 13:10	1

Lab Sample ID: LCSSRM 480-568289/2-A ^10
Matrix: Solid
Analysis Batch: 568410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568289

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	23.58		mg/Kg		86.7	59.9 - 140.1

GC/MS VOA

Analysis Batch: 567710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-567779/2-A	Method Blank	Total/NA	Solid	8260C	567779
LCS 480-567779/1-A	Lab Control Sample	Total/NA	Solid	8260C	567779

Prep Batch: 567779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	5035A_L	
480-180659-3	MW-9 6-7	Total/NA	Solid	5035A_L	
MB 480-567779/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-567779/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Prep Batch: 567797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-2	MW-12 6-7	Total/NA	Solid	5035A_H	
MB 480-567797/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-567797/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-567797/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 567888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-2	MW-12 6-7	Total/NA	Solid	8260C	567797
MB 480-567797/3-A	Method Blank	Total/NA	Solid	8260C	567797
LCS 480-567797/1-A	Lab Control Sample	Total/NA	Solid	8260C	567797
LCSD 480-567797/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	567797

Analysis Batch: 567972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	8260C	567779
480-180659-3	MW-9 6-7	Total/NA	Solid	8260C	567779

GC/MS Semi VOA

Prep Batch: 568338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	3550C	
480-180659-2	MW-12 6-7	Total/NA	Solid	3550C	
480-180659-3	MW-9 6-7	Total/NA	Solid	3550C	
MB 480-568338/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-568338/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-180659-1 MS	MW-8_8D 4-5	Total/NA	Solid	3550C	
480-180659-1 MSD	MW-8_8D 4-5	Total/NA	Solid	3550C	

Analysis Batch: 568477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	8270D	568338
480-180659-2	MW-12 6-7	Total/NA	Solid	8270D	568338
480-180659-3	MW-9 6-7	Total/NA	Solid	8270D	568338
MB 480-568338/1-A	Method Blank	Total/NA	Solid	8270D	568338
LCS 480-568338/2-A	Lab Control Sample	Total/NA	Solid	8270D	568338
480-180659-1 MS	MW-8_8D 4-5	Total/NA	Solid	8270D	568338
480-180659-1 MSD	MW-8_8D 4-5	Total/NA	Solid	8270D	568338

GC Semi VOA

Prep Batch: 567905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	8151A	
480-180659-2	MW-12 6-7	Total/NA	Solid	8151A	
480-180659-3	MW-9 6-7	Total/NA	Solid	8151A	
MB 480-567905/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-567905/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-180659-1 MS	MW-8_8D 4-5	Total/NA	Solid	8151A	
480-180659-1 MSD	MW-8_8D 4-5	Total/NA	Solid	8151A	

Prep Batch: 567912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	3550C	
480-180659-2	MW-12 6-7	Total/NA	Solid	3550C	
480-180659-3	MW-9 6-7	Total/NA	Solid	3550C	
MB 480-567912/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-567912/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-180659-1 MS	MW-8_8D 4-5	Total/NA	Solid	3550C	
480-180659-1 MSD	MW-8_8D 4-5	Total/NA	Solid	3550C	

Prep Batch: 568029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	3550C	
480-180659-2	MW-12 6-7	Total/NA	Solid	3550C	
480-180659-3	MW-9 6-7	Total/NA	Solid	3550C	
MB 480-568029/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-568029/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 568030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	8081B	567912
480-180659-2	MW-12 6-7	Total/NA	Solid	8081B	567912
480-180659-3	MW-9 6-7	Total/NA	Solid	8081B	567912
MB 480-567912/1-A	Method Blank	Total/NA	Solid	8081B	567912
LCS 480-567912/2-A	Lab Control Sample	Total/NA	Solid	8081B	567912
480-180659-1 MS	MW-8_8D 4-5	Total/NA	Solid	8081B	567912
480-180659-1 MSD	MW-8_8D 4-5	Total/NA	Solid	8081B	567912

Analysis Batch: 568144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	8082A	568029
480-180659-2	MW-12 6-7	Total/NA	Solid	8082A	568029
480-180659-3	MW-9 6-7	Total/NA	Solid	8082A	568029
MB 480-568029/1-A	Method Blank	Total/NA	Solid	8082A	568029
LCS 480-568029/2-A	Lab Control Sample	Total/NA	Solid	8082A	568029

Analysis Batch: 568380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	8151A	567905
480-180659-2	MW-12 6-7	Total/NA	Solid	8151A	567905
480-180659-3	MW-9 6-7	Total/NA	Solid	8151A	567905
MB 480-567905/1-A	Method Blank	Total/NA	Solid	8151A	567905
LCS 480-567905/2-A	Lab Control Sample	Total/NA	Solid	8151A	567905

GC Semi VOA (Continued)

Analysis Batch: 568380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1 MS	MW-8_8D 4-5	Total/NA	Solid	8151A	567905
480-180659-1 MSD	MW-8_8D 4-5	Total/NA	Solid	8151A	567905

LCMS

Prep Batch: 457461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	SHAKE	
MB 320-457461/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-457461/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 458296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	537 (modified)	457461
MB 320-457461/1-A	Method Blank	Total/NA	Solid	537 (modified)	457461
LCS 320-457461/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	457461

Prep Batch: 458463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1 - RE	MW-8_8D 4-5	Total/NA	Solid	SHAKE	
MB 320-458463/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-458463/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-180659-1 MS - RE	MW-8_8D 4-5	Total/NA	Solid	SHAKE	
480-180659-1 MSD - RE	MW-8_8D 4-5	Total/NA	Solid	SHAKE	

Analysis Batch: 458936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1 - RE	MW-8_8D 4-5	Total/NA	Solid	537 (modified)	458463
MB 320-458463/1-A	Method Blank	Total/NA	Solid	537 (modified)	458463
LCS 320-458463/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	458463
480-180659-1 MS - RE	MW-8_8D 4-5	Total/NA	Solid	537 (modified)	458463
480-180659-1 MSD - RE	MW-8_8D 4-5	Total/NA	Solid	537 (modified)	458463

Metals

Prep Batch: 567998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	3050B	
480-180659-2	MW-12 6-7	Total/NA	Solid	3050B	
480-180659-3	MW-9 6-7	Total/NA	Solid	3050B	
MB 480-567998/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 480-567998/21-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-567998/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 568225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	6010C	567998
480-180659-2	MW-12 6-7	Total/NA	Solid	6010C	567998
480-180659-3	MW-9 6-7	Total/NA	Solid	6010C	567998
MB 480-567998/1-A	Method Blank	Total/NA	Solid	6010C	567998
LCDSRM 480-567998/21-A	Lab Control Sample Dup	Total/NA	Solid	6010C	567998
LCSSRM 480-567998/2-A	Lab Control Sample	Total/NA	Solid	6010C	567998

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

Metals

Prep Batch: 568289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	7471B	
480-180659-2	MW-12 6-7	Total/NA	Solid	7471B	
480-180659-3	MW-9 6-7	Total/NA	Solid	7471B	
MB 480-568289/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-568289/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 568410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	7471B	568289
480-180659-2	MW-12 6-7	Total/NA	Solid	7471B	568289
480-180659-3	MW-9 6-7	Total/NA	Solid	7471B	568289
MB 480-568289/1-A	Method Blank	Total/NA	Solid	7471B	568289
LCSSRM 480-568289/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	568289

General Chemistry

Analysis Batch: 567822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180659-1	MW-8_8D 4-5	Total/NA	Solid	Moisture	
480-180659-2	MW-12 6-7	Total/NA	Solid	Moisture	
480-180659-3	MW-9 6-7	Total/NA	Solid	Moisture	

Client Sample ID: MW-8_8D 4-5
Date Collected: 01/28/21 09:50
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	567822	01/29/21 17:16	CLA	TAL BUF

Client Sample ID: MW-8_8D 4-5
Date Collected: 01/28/21 09:50
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-1
Matrix: Solid
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			567779	01/29/21 11:35	WJD	TAL BUF
Total/NA	Analysis	8260C		1	567972	02/01/21 17:42	CDC	TAL BUF
Total/NA	Prep	3550C			568338	02/04/21 07:43	VXF	TAL BUF
Total/NA	Analysis	8270D		1	568477	02/05/21 18:25	JMM	TAL BUF
Total/NA	Prep	3550C			567912	02/01/21 07:54	VXF	TAL BUF
Total/NA	Analysis	8081B		1	568030	02/02/21 10:53	JLS	TAL BUF
Total/NA	Prep	3550C			568029	02/02/21 07:14	SMP	TAL BUF
Total/NA	Analysis	8082A		1	568144	02/02/21 16:07	NC	TAL BUF
Total/NA	Prep	8151A			567905	02/01/21 07:29	SMP	TAL BUF
Total/NA	Analysis	8151A		1	568380	02/04/21 14:10	MAN	TAL BUF
Total/NA	Prep	SHAKE			457461	02/01/21 12:13	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1	458296	02/03/21 14:52	K1S	TAL SAC
Total/NA	Prep	SHAKE	RE		458463	02/03/21 19:28	FX	TAL SAC
Total/NA	Analysis	537 (modified)	RE	1	458936	02/05/21 04:17	JY1	TAL SAC
Total/NA	Prep	3050B			567998	02/01/21 18:16	ADM	TAL BUF
Total/NA	Analysis	6010C		1	568225	02/02/21 16:08	LMH	TAL BUF
Total/NA	Prep	7471B			568289	02/04/21 10:55	BMB	TAL BUF
Total/NA	Analysis	7471B		1	568410	02/04/21 13:12	BMB	TAL BUF

Client Sample ID: MW-12 6-7
Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	567822	01/29/21 17:16	CLA	TAL BUF

Client Sample ID: MW-12 6-7
Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			567797	01/29/21 13:22	WJD	TAL BUF
Total/NA	Analysis	8260C		1	567888	02/01/21 10:33	AMM	TAL BUF
Total/NA	Prep	3550C			568338	02/04/21 07:43	VXF	TAL BUF
Total/NA	Analysis	8270D		1	568477	02/05/21 18:49	JMM	TAL BUF
Total/NA	Prep	3550C			567912	02/01/21 07:54	VXF	TAL BUF
Total/NA	Analysis	8081B		1	568030	02/02/21 11:32	JLS	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Client Sample ID: MW-12 6-7

Date Collected: 01/28/21 13:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-2

Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			568029	02/02/21 07:14	SMP	TAL BUF
Total/NA	Analysis	8082A		1	568144	02/02/21 16:20	NC	TAL BUF
Total/NA	Prep	8151A			567905	02/01/21 07:29	SMP	TAL BUF
Total/NA	Analysis	8151A		1	568380	02/04/21 15:10	MAN	TAL BUF
Total/NA	Prep	3050B			567998	02/01/21 18:16	ADM	TAL BUF
Total/NA	Analysis	6010C		1	568225	02/02/21 16:12	LMH	TAL BUF
Total/NA	Prep	7471B			568289	02/04/21 10:55	BMB	TAL BUF
Total/NA	Analysis	7471B		1	568410	02/04/21 13:14	BMB	TAL BUF

Client Sample ID: MW-9 6-7

Date Collected: 01/28/21 14:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	567822	01/29/21 17:16	CLA	TAL BUF

Client Sample ID: MW-9 6-7

Date Collected: 01/28/21 14:00
Date Received: 01/29/21 16:30

Lab Sample ID: 480-180659-3

Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			567779	01/29/21 11:35	WJD	TAL BUF
Total/NA	Analysis	8260C		1	567972	02/01/21 18:08	CDC	TAL BUF
Total/NA	Prep	3550C			568338	02/04/21 07:43	VXF	TAL BUF
Total/NA	Analysis	8270D		1	568477	02/05/21 19:14	JMM	TAL BUF
Total/NA	Prep	3550C			567912	02/01/21 07:54	VXF	TAL BUF
Total/NA	Analysis	8081B		1	568030	02/02/21 11:52	JLS	TAL BUF
Total/NA	Prep	3550C			568029	02/02/21 07:14	SMP	TAL BUF
Total/NA	Analysis	8082A		1	568144	02/02/21 16:32	NC	TAL BUF
Total/NA	Prep	8151A			567905	02/01/21 07:29	SMP	TAL BUF
Total/NA	Analysis	8151A		1	568380	02/04/21 15:40	MAN	TAL BUF
Total/NA	Prep	3050B			567998	02/01/21 18:16	ADM	TAL BUF
Total/NA	Analysis	6010C		1	568225	02/02/21 16:15	LMH	TAL BUF
Total/NA	Prep	7471B			568289	02/04/21 10:55	BMB	TAL BUF
Total/NA	Analysis	7471B		1	568410	02/04/21 13:15	BMB	TAL BUF

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-21 *
ANAB	ISO/IEC 17025	L2468	01-20-21 *
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21 *
Hawaii	State	<cert No.>	01-29-21 *
Illinois	NELAP	200060	03-17-21
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-21 *
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-21 *
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180659-1
Project/Site: Benchmark - 3077 Union Rd

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180659-1	MW-8_8D 4-5	Solid	01/28/21 09:50	01/29/21 16:30	
480-180659-2	MW-12 6-7	Solid	01/28/21 13:00	01/29/21 16:30	
480-180659-3	MW-9 6-7	Solid	01/28/21 14:00	01/29/21 16:30	

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

Chain of Custody Record

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Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-155501-34448.1
Client Contact: Nick Suraci	Phone: 716-713-3437	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 1 of 3
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days): Standard			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: T0105-017-010			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site: 3077 Union RD	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	8081B, 8082A, 8151A, 8270D	6010C, 7471B	PFC_IDA - PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
MW-8/8D 4-5 Ft	1/28/21	9:30	G	Solid			X	X	X	X		
MW-12 6-7 Ft	1/28/21	13:00	G	Solid			X	X	X			
MW-9 6-7 Ft	1/28/21	14:00	G	Solid			X	X	X			
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

480-180659 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYS Pkg equiv

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1/29/21 16:30	Company	Received by: [signature] Date/Time: 1/28/21 1630 Company: TA
Relinquished by	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: 3.4 # Date/Time: ICE Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-61559.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-180659-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 2/4/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-8/8D 4/5 (480-180659-1)	1/28/21	09:50 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Matthew Nikolb	01/29/21 1700	TA		1/30/21 0900	EurAsc
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 1427445	Cooler Temperature(s) °C and Other Remarks: 1.8

Ver: 11/01/2020

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Sacramento Sample Receiving Notes

480-180659 Field Sheet

Tracking # : 1888 3062 9296

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: 101 Corr. Factor: (+ / -) N/A °C

Ice ____ Wet ✓ Gel ____ Other ____

Cooler Custody Seal: 1427445

Cooler ID: 1 S 1130121

Temp Observed: 1.8 °C Corrected: 1.8 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials: SO Date: 1/30/21

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☐
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [illegible] Date: 1/30/21

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: [illegible] Date: 1/30/21

WR 32 C

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-180659-1

Login Number: 180659
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FROZEN @ 1800
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BENCHMARK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-180659-1

Login Number: 180659
List Number: 2
Creator: Nelson, Kym D

List Source: Eurofins TestAmerica, Sacramento
List Creation: 01/30/21 01:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1427445
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not requested on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-180749-1
Client Project/Site: Benchmark - 3077 Union Rd

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
2/10/2021 9:43:27 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

LINKS

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

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

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

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Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180749-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180749-1

Comments
No additional comments.

Receipt
The samples were received on 2/2/2021 8:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-568492 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCVIS were non-detect or below the reporting limit (RL) for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-11 4-5 (480-180749-1), MW-10 4-5 (480-180749-2), MW-14 2-3 (480-180749-3) and MW-13 4-5 (480-180749-4).

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-568387 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-14 2-3 (480-180749-3). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-568387 recovered above the upper control limit for 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-11 4-5 (480-180749-1), MW-10 4-5 (480-180749-2), MW-14 2-3 (480-180749-3) and MW-13 4-5 (480-180749-4).

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

GC Semi VOA
Method 8081B: The laboratory control sample (LCS) for preparation batch 480-568337 and analytical batch 480-568333 recovered outside control limits for the following analytes: Endosulfan sulfate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8151A: The continuing calibration verification (CCV) associated with batch 480-568731 recovered above the upper control limit for 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-11 4-5 (480-180749-1), MW-10 4-5 (480-180749-2), MW-14 2-3 (480-180749-3) and MW-13 4-5 (480-180749-4).

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

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

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-11 4-5

Lab Sample ID: 480-180749-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.0	J	26	4.3	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDT	0.68	J	1.9	0.44	ug/Kg	1	☼	8081B	Total/NA
delta-BHC	0.63	J	1.9	0.35	ug/Kg	1	☼	8081B	Total/NA
Aluminum	20800		11.1		mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.6		2.2		mg/Kg	1	☼	6010C	Total/NA
Barium	57.4		0.56		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.98		0.22		mg/Kg	1	☼	6010C	Total/NA
Calcium	1430		55.5		mg/Kg	1	☼	6010C	Total/NA
Chromium	32.3		0.56		mg/Kg	1	☼	6010C	Total/NA
Cobalt	17.4		0.56		mg/Kg	1	☼	6010C	Total/NA
Copper	15.8		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	28700		11.1		mg/Kg	1	☼	6010C	Total/NA
Lead	4.8		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	7070		22.2		mg/Kg	1	☼	6010C	Total/NA
Manganese	284		0.22		mg/Kg	1	☼	6010C	Total/NA
Nickel	55.8		5.6		mg/Kg	1	☼	6010C	Total/NA
Potassium	3310		33.3		mg/Kg	1	☼	6010C	Total/NA
Vanadium	31.3		0.56		mg/Kg	1	☼	6010C	Total/NA
Zinc	56.3		2.2		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.032		0.020		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-10 4-5

Lab Sample ID: 480-180749-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.5	J	24	1.8	ug/Kg	1	☼	8260C	Total/NA
Acetone	50		24	4.1	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.5	J	4.8	2.2	ug/Kg	1	☼	8260C	Total/NA
gamma-BHC (Lindane)	0.40	J	1.9	0.34	ug/Kg	1	☼	8081B	Total/NA
Aluminum	17900		11.5		mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.3		2.3		mg/Kg	1	☼	6010C	Total/NA
Barium	46.5		0.58		mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.2		0.23		mg/Kg	1	☼	6010C	Total/NA
Calcium	1450		57.7		mg/Kg	1	☼	6010C	Total/NA
Chromium	26.8		0.58		mg/Kg	1	☼	6010C	Total/NA
Cobalt	21.1		0.58		mg/Kg	1	☼	6010C	Total/NA
Copper	22.0		1.2		mg/Kg	1	☼	6010C	Total/NA
Iron	30700		11.5		mg/Kg	1	☼	6010C	Total/NA
Lead	11.7		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	6510		23.1		mg/Kg	1	☼	6010C	Total/NA
Manganese	255		0.23		mg/Kg	1	☼	6010C	Total/NA
Nickel	59.9		5.8		mg/Kg	1	☼	6010C	Total/NA
Potassium	3850		34.6		mg/Kg	1	☼	6010C	Total/NA
Vanadium	26.5		0.58		mg/Kg	1	☼	6010C	Total/NA
Zinc	48.6		2.3		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.046		0.022		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-14 2-3

Lab Sample ID: 480-180749-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49		34	5.6	ug/Kg	1	☼	8260C	Total/NA
Aluminum	19300		12.8		mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.8		2.6		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: MW-14 2-3 (Continued)
Lab Sample ID: 480-180749-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	51.1		0.64		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.98		0.26		mg/Kg	1	☼	6010C	Total/NA
Calcium	3020		64.2		mg/Kg	1	☼	6010C	Total/NA
Chromium	31.8		0.64		mg/Kg	1	☼	6010C	Total/NA
Cobalt	17.9		0.64		mg/Kg	1	☼	6010C	Total/NA
Copper	19.4		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	29300		12.8		mg/Kg	1	☼	6010C	Total/NA
Lead	8.2		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	6430		25.7		mg/Kg	1	☼	6010C	Total/NA
Manganese	422		0.26		mg/Kg	1	☼	6010C	Total/NA
Nickel	57.2		6.4		mg/Kg	1	☼	6010C	Total/NA
Potassium	3350		38.5		mg/Kg	1	☼	6010C	Total/NA
Vanadium	29.9		0.64		mg/Kg	1	☼	6010C	Total/NA
Zinc	59.0		2.6		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.052		0.023		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-13 4-5
Lab Sample ID: 480-180749-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.1	J	24	4.1	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	4.0	J	4.8	2.2	ug/Kg	1	☼	8260C	Total/NA
delta-BHC	0.64	J	2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
Aluminum	21500		12.2		mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.8		2.4		mg/Kg	1	☼	6010C	Total/NA
Barium	63.2		0.61		mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.0		0.24		mg/Kg	1	☼	6010C	Total/NA
Calcium	18700		61.1		mg/Kg	1	☼	6010C	Total/NA
Chromium	36.3		0.61		mg/Kg	1	☼	6010C	Total/NA
Cobalt	20.2		0.61		mg/Kg	1	☼	6010C	Total/NA
Copper	16.0		1.2		mg/Kg	1	☼	6010C	Total/NA
Iron	33400		12.2		mg/Kg	1	☼	6010C	Total/NA
Lead	3.7		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	9630		24.5		mg/Kg	1	☼	6010C	Total/NA
Manganese	318		0.24		mg/Kg	1	☼	6010C	Total/NA
Nickel	67.2		6.1		mg/Kg	1	☼	6010C	Total/NA
Potassium	4140		36.7		mg/Kg	1	☼	6010C	Total/NA
Vanadium	32.0		0.61		mg/Kg	1	☼	6010C	Total/NA
Zinc	55.8		2.4		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.046		0.020		mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-11 4-5
Date Collected: 02/01/21 11:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-1
Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.37	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.84	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,1,2-Trichloroethane	ND		5.2	0.67	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,1-Dichloroethane	ND		5.2	0.63	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,1-Dichloroethene	ND		5.2	0.63	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,2,4-Trichlorobenzene	ND		5.2	0.31	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,2-Dichlorobenzene	ND		5.2	0.40	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,3-Dichlorobenzene	ND		5.2	0.26	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,4-Dichlorobenzene	ND		5.2	0.72	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Acetone	**6.0**	**J**	26	4.3	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Benzene	ND		5.2	0.25	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Bromodichloromethane	ND		5.2	0.69	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Bromomethane	ND		5.2	0.46	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Carbon tetrachloride	ND		5.2	0.50	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Chlorobenzene	ND		5.2	0.68	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Dibromochloromethane	ND		5.2	0.66	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Chloroform	ND		5.2	0.32	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Chloromethane	ND		5.2	0.31	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
cis-1,2-Dichloroethene	ND		5.2	0.66	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
cis-1,3-Dichloropropene	ND		5.2	0.74	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Cyclohexane	ND		5.2	0.72	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
1,2-Dibromoethane	ND		5.2	0.66	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Isopropylbenzene	ND		5.2	0.78	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Methyl acetate	ND		26	3.1	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Methyl tert-butyl ether	ND		5.2	0.51	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Methylcyclohexane	ND		5.2	0.78	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Methylene Chloride	ND		5.2	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Styrene	ND		5.2	0.26	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Tetrachloroethene	ND		5.2	0.69	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Toluene	ND		5.2	0.39	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
trans-1,2-Dichloroethene	ND		5.2	0.53	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Trichloroethene	ND		5.2	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Trichlorofluoromethane	ND		5.2	0.49	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Vinyl chloride	ND		5.2	0.63	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1
Xylenes, Total	ND		10	0.87	ug/Kg	☼	02/02/21 10:15	02/05/21 12:59	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-11 4-5
Date Collected: 02/01/21 11:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-1
Matrix: Solid
Percent Solids: 88.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*71 - 125*	*02/02/21 10:15*	*02/05/21 12:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*02/02/21 10:15*	*02/05/21 12:59*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/02/21 10:15*	*02/05/21 12:59*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 140*	*02/02/21 10:15*	*02/05/21 12:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	62	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2-Chlorophenol	ND		370	35	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2-Methylphenol	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4-Methylphenol	ND		370	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Acenaphthene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Acenaphthylene	ND		190	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Acetophenone	ND		190	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Anthracene	ND		190	47	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Atrazine	ND		190	66	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Biphenyl	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Caprolactam	ND		190	57	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Carbazole	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1

Client Sample ID: MW-11 4-5
Date Collected: 02/01/21 11:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-1
Matrix: Solid
Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		190	43	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Dibenzofuran	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Fluoranthene	ND		190	20	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Fluorene	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Hexachloroethane	ND		190	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Isophorone	ND		190	40	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Naphthalene	ND		190	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Nitrobenzene	ND		190	21	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Phenanthrene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Phenol	ND		190	29	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1
Pyrene	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*110*		*54 - 120*	*02/03/21 07:22*	*02/04/21 21:04*	*1*
2-Fluorobiphenyl	*88*		*60 - 120*	*02/03/21 07:22*	*02/04/21 21:04*	*1*
2-Fluorophenol (Surr)	*80*		*52 - 120*	*02/03/21 07:22*	*02/04/21 21:04*	*1*
Nitrobenzene-d5 (Surr)	*86*		*53 - 120*	*02/03/21 07:22*	*02/04/21 21:04*	*1*
Phenol-d5 (Surr)	*84*		*54 - 120*	*02/03/21 07:22*	*02/04/21 21:04*	*1*
p-Terphenyl-d14 (Surr)	*100*		*79 - 130*	*02/03/21 07:22*	*02/04/21 21:04*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
4,4'-DDT	**0.68**	**J**	1.9	0.44	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
cis-Chlordane	ND		1.9	0.94	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
delta-BHC	**0.63**	**J**	1.9	0.35	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Dieldrin	ND		1.9	0.45	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Endosulfan sulfate	ND	*+	1.9	0.35	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Endrin	ND		1.9	0.37	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Endrin aldehyde	ND		1.9	0.48	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Endrin ketone	ND		1.9	0.46	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1

Client Sample ID: MW-11 4-5
Lab Sample ID: 480-180749-1
Date Collected: 02/01/21 11:30
Matrix: Solid
Date Received: 02/02/21 08:45
Percent Solids: 88.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		1.9	0.60	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1
Toxaphene	ND		19	11	ug/Kg	☼	02/04/21 07:39	02/04/21 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*02/04/21 07:39*	*02/04/21 15:35*	*1*
Tetrachloro-m-xylene	*109*		*30 - 124*	*02/04/21 07:39*	*02/04/21 15:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	02/05/21 07:40	02/08/21 22:42	1
PCB-1221	ND		0.23	0.046	mg/Kg	☼	02/05/21 07:40	02/08/21 22:42	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	02/05/21 07:40	02/08/21 22:42	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	02/05/21 07:40	02/08/21 22:42	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	02/05/21 07:40	02/08/21 22:42	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	02/05/21 07:40	02/08/21 22:42	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	02/05/21 07:40	02/08/21 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*132*		*60 - 154*	*02/05/21 07:40*	*02/08/21 22:42*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*02/05/21 07:40*	*02/08/21 22:42*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	5.9	ug/Kg	☼	02/03/21 07:26	02/09/21 09:59	1
Silvex (2,4,5-TP)	ND		19	6.7	ug/Kg	☼	02/03/21 07:26	02/09/21 09:59	1
2,4-D	ND		19	12	ug/Kg	☼	02/03/21 07:26	02/09/21 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*02/03/21 07:26*	*02/09/21 09:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20800**		11.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Antimony	ND		16.7		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Arsenic	**2.6**		2.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Barium	**57.4**		0.56		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Beryllium	**0.98**		0.22		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Cadmium	ND		0.22		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Calcium	**1430**		55.5		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Chromium	**32.3**		0.56		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Cobalt	**17.4**		0.56		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Copper	**15.8**		1.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Iron	**28700**		11.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Lead	**4.8**		1.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Magnesium	**7070**		22.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Manganese	**284**		0.22		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Nickel	**55.8**		5.6		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Potassium	**3310**		33.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-11 4-5
Date Collected: 02/01/21 11:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-1
Matrix: Solid
Percent Solids: 88.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.4		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Silver	ND		0.67		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Sodium	ND		156		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Thallium	ND		6.7		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Vanadium	**31.3**		0.56		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1
Zinc	**56.3**		2.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.020		mg/Kg	☼	02/04/21 10:55	02/04/21 13:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-10 4-5
Date Collected: 02/01/21 09:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-2
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,1,2-Trichloroethane	ND		4.8	0.63	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,1-Dichloroethane	ND		4.8	0.59	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,1-Dichloroethene	ND		4.8	0.59	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,2-Dichlorobenzene	ND		4.8	0.38	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,4-Dichlorobenzene	ND		4.8	0.67	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
2-Butanone (MEK)	**4.5**	**J**	24	1.8	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Acetone	**50**		24	4.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Benzene	ND		4.8	0.24	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Bromodichloromethane	ND		4.8	0.65	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Carbon tetrachloride	ND		4.8	0.47	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Chlorobenzene	ND		4.8	0.64	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Dibromochloromethane	ND		4.8	0.62	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Chloroform	ND		4.8	0.30	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
cis-1,2-Dichloroethene	ND		4.8	0.62	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Cyclohexane	ND		4.8	0.67	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Dichlorodifluoromethane	ND		4.8	0.40	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
1,2-Dibromoethane	ND		4.8	0.62	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Isopropylbenzene	ND		4.8	0.73	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Methylene Chloride	**3.5**	**J**	4.8	2.2	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Styrene	ND		4.8	0.24	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Tetrachloroethene	ND		4.8	0.65	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Toluene	ND		4.8	0.36	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
trans-1,2-Dichloroethene	ND		4.8	0.50	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Trichloroethene	ND		4.8	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Trichlorofluoromethane	ND		4.8	0.46	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Vinyl chloride	ND		4.8	0.59	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1
Xylenes, Total	ND		9.6	0.81	ug/Kg	☼	02/02/21 10:15	02/05/21 13:26	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-10 4-5
Date Collected: 02/01/21 09:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-2
Matrix: Solid
Percent Solids: 89.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*71 - 125*	*02/02/21 10:15*	*02/05/21 13:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*02/02/21 10:15*	*02/05/21 13:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*02/02/21 10:15*	*02/05/21 13:26*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*02/02/21 10:15*	*02/05/21 13:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	61	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2,4-Dinitrophenol	ND		1800	870	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2-Chlorophenol	ND		370	34	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2-Methylphenol	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4-Methylphenol	ND		370	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4-Nitroaniline	ND		370	99	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Acenaphthene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Acenaphthylene	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Acetophenone	ND		190	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Anthracene	ND		190	47	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Atrazine	ND		190	66	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Benzaldehyde	ND		190	150	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Biphenyl	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Caprolactam	ND		190	57	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Carbazole	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-10 4-5
Date Collected: 02/01/21 09:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-2
Matrix: Solid
Percent Solids: 89.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		190	42	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Dibenzofuran	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Fluoranthene	ND		190	20	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Fluorene	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Hexachloroethane	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Isophorone	ND		190	40	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Naphthalene	ND		190	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Nitrobenzene	ND		190	21	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Phenanthrene	ND		190	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Phenol	ND		190	29	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1
Pyrene	ND		190	22	ug/Kg	☼	02/03/21 07:22	02/04/21 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*110*		*54 - 120*	*02/03/21 07:22*	*02/04/21 21:28*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*02/03/21 07:22*	*02/04/21 21:28*	*1*
2-Fluorophenol (Surr)	*84*		*52 - 120*	*02/03/21 07:22*	*02/04/21 21:28*	*1*
Nitrobenzene-d5 (Surr)	*89*		*53 - 120*	*02/03/21 07:22*	*02/04/21 21:28*	*1*
Phenol-d5 (Surr)	*91*		*54 - 120*	*02/03/21 07:22*	*02/04/21 21:28*	*1*
p-Terphenyl-d14 (Surr)	*102*		*79 - 130*	*02/03/21 07:22*	*02/04/21 21:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.36	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
4,4'-DDE	ND		1.9	0.39	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
4,4'-DDT	ND		1.9	0.43	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
alpha-BHC	ND		1.9	0.33	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
cis-Chlordane	ND		1.9	0.92	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
beta-BHC	ND		1.9	0.33	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
delta-BHC	ND		1.9	0.34	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Dieldrin	ND		1.9	0.44	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Endosulfan II	ND		1.9	0.33	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Endosulfan sulfate	ND	*+	1.9	0.35	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Endrin	ND		1.9	0.37	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Endrin aldehyde	ND		1.9	0.47	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Endrin ketone	ND		1.9	0.46	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
gamma-BHC (Lindane)	**0.40**	**J**	1.9	0.34	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1

Client Sample ID: MW-10 4-5
Date Collected: 02/01/21 09:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-2
Matrix: Solid
Percent Solids: 89.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		1.9	0.59	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Heptachlor	ND		1.9	0.40	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Heptachlor epoxide	ND		1.9	0.48	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1
Toxaphene	ND		19	11	ug/Kg	☼	02/04/21 07:39	02/04/21 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*02/04/21 07:39*	*02/04/21 16:00*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*02/04/21 07:39*	*02/04/21 16:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	02/05/21 07:40	02/08/21 22:54	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	02/05/21 07:40	02/08/21 22:54	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	02/05/21 07:40	02/08/21 22:54	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	02/05/21 07:40	02/08/21 22:54	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	02/05/21 07:40	02/08/21 22:54	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	02/05/21 07:40	02/08/21 22:54	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	02/05/21 07:40	02/08/21 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*60 - 154*	*02/05/21 07:40*	*02/08/21 22:54*	*1*
DCB Decachlorobiphenyl	*121*		*65 - 174*	*02/05/21 07:40*	*02/08/21 22:54*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.9	ug/Kg	☼	02/03/21 07:26	02/09/21 10:28	1
Silvex (2,4,5-TP)	ND		18	6.6	ug/Kg	☼	02/03/21 07:26	02/09/21 10:28	1
2,4-D	ND		18	12	ug/Kg	☼	02/03/21 07:26	02/09/21 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*58*		*28 - 129*	*02/03/21 07:26*	*02/09/21 10:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17900**		11.5		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Antimony	ND		17.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Arsenic	**4.3**		2.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Barium	**46.5**		0.58		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Beryllium	**1.2**		0.23		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Cadmium	ND		0.23		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Calcium	**1450**		57.7		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Chromium	**26.8**		0.58		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Cobalt	**21.1**		0.58		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Copper	**22.0**		1.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Iron	**30700**		11.5		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Lead	**11.7**		1.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Magnesium	**6510**		23.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Manganese	**255**		0.23		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Nickel	**59.9**		5.8		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Potassium	**3850**		34.6		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-10 4-5
Date Collected: 02/01/21 09:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-2
Matrix: Solid
Percent Solids: 89.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.6		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Silver	ND		0.69		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Sodium	ND		162		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Thallium	ND		6.9		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Vanadium	**26.5**		0.58		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1
Zinc	**48.6**		2.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.022		mg/Kg	☼	02/04/21 10:55	02/04/21 13:58	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-14 2-3
Date Collected: 02/01/21 12:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-3
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.7	0.49	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,1,2,2-Tetrachloroethane	ND		6.7	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,1,2-Trichloroethane	ND		6.7	0.87	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	1.5	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,1-Dichloroethane	ND		6.7	0.82	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,1-Dichloroethene	ND		6.7	0.82	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,2,4-Trichlorobenzene	ND		6.7	0.41	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,2-Dibromo-3-Chloropropane	ND		6.7	3.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,2-Dichlorobenzene	ND		6.7	0.52	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,2-Dichloroethane	ND		6.7	0.34	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,2-Dichloropropane	ND		6.7	3.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,3-Dichlorobenzene	ND		6.7	0.34	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,4-Dichlorobenzene	ND		6.7	0.94	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
2-Butanone (MEK)	ND		34	2.5	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
2-Hexanone	ND		34	3.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
4-Methyl-2-pentanone (MIBK)	ND		34	2.2	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Acetone	**49**		34	5.6	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Benzene	ND		6.7	0.33	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Bromodichloromethane	ND		6.7	0.90	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Bromoform	ND		6.7	3.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Bromomethane	ND		6.7	0.60	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Carbon disulfide	ND		6.7	3.4	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Carbon tetrachloride	ND		6.7	0.65	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Chlorobenzene	ND		6.7	0.88	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Dibromochloromethane	ND		6.7	0.86	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Chloroethane	ND		6.7	1.5	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Chloroform	ND		6.7	0.41	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Chloromethane	ND		6.7	0.40	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
cis-1,2-Dichloroethene	ND		6.7	0.86	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
cis-1,3-Dichloropropene	ND		6.7	0.96	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Cyclohexane	ND		6.7	0.94	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Dichlorodifluoromethane	ND		6.7	0.55	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Ethylbenzene	ND		6.7	0.46	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
1,2-Dibromoethane	ND		6.7	0.86	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Isopropylbenzene	ND		6.7	1.0	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Methyl acetate	ND		34	4.0	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Methyl tert-butyl ether	ND		6.7	0.66	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Methylcyclohexane	ND		6.7	1.0	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Methylene Chloride	ND		6.7	3.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Styrene	ND		6.7	0.34	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Tetrachloroethene	ND		6.7	0.90	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Toluene	ND		6.7	0.51	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
trans-1,2-Dichloroethene	ND		6.7	0.69	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
trans-1,3-Dichloropropene	ND		6.7	2.9	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Trichloroethene	ND		6.7	1.5	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Trichlorofluoromethane	ND		6.7	0.63	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Vinyl chloride	ND		6.7	0.82	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 13:53	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-14 2-3
Date Collected: 02/01/21 12:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-3
Matrix: Solid
Percent Solids: 77.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*71 - 125*	*02/02/21 10:15*	*02/05/21 13:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*64 - 126*	*02/02/21 10:15*	*02/05/21 13:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*02/02/21 10:15*	*02/05/21 13:53*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*02/02/21 10:15*	*02/05/21 13:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	69	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2,4,5-Trichlorophenol	ND		210	58	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2,4,6-Trichlorophenol	ND		210	43	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2,4-Dichlorophenol	ND		210	23	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2,4-Dimethylphenol	ND		210	52	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2,4-Dinitrophenol	ND		2100	990	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2-Chlorophenol	ND		420	39	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2-Methylnaphthalene	ND		210	43	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2-Methylphenol	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2-Nitroaniline	ND		420	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
2-Nitrophenol	ND		210	60	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
3,3'-Dichlorobenzidine	ND		420	250	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
3-Nitroaniline	ND		420	59	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4,6-Dinitro-2-methylphenol	ND		420	210	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4-Chloro-3-methylphenol	ND		210	53	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4-Chloroaniline	ND		210	53	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4-Methylphenol	ND		420	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4-Nitroaniline	ND		420	110	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
4-Nitrophenol	ND		420	150	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Acenaphthene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Acenaphthylene	ND		210	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Acetophenone	ND		210	29	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Anthracene	ND		210	53	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Atrazine	ND		210	74	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Benzaldehyde	ND		210	170	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Benzo[g,h,i]perylene	ND		210	23	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Benzo[k]fluoranthene	ND		210	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Biphenyl	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Bis(2-chloroethyl)ether	ND		210	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Bis(2-ethylhexyl) phthalate	ND		210	73	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Caprolactam	ND		210	64	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Carbazole	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-14 2-3
Date Collected: 02/01/21 12:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-3
Matrix: Solid
Percent Solids: 77.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		210	48	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Dibenz(a,h)anthracene	ND		210	38	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Dibenzofuran	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Diethyl phthalate	ND		210	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Fluoranthene	ND		210	23	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Fluorene	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Hexachloroethane	ND		210	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Isophorone	ND		210	45	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Naphthalene	ND		210	28	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Nitrobenzene	ND		210	24	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Pentachlorophenol	ND		420	210	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Phenanthrene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Phenol	ND		210	33	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1
Pyrene	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*122*	*S1+*	*54 - 120*	*02/03/21 07:22*	*02/04/21 21:53*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*02/03/21 07:22*	*02/04/21 21:53*	*1*
2-Fluorophenol (Surr)	*85*		*52 - 120*	*02/03/21 07:22*	*02/04/21 21:53*	*1*
Nitrobenzene-d5 (Surr)	*89*		*53 - 120*	*02/03/21 07:22*	*02/04/21 21:53*	*1*
Phenol-d5 (Surr)	*92*		*54 - 120*	*02/03/21 07:22*	*02/04/21 21:53*	*1*
p-Terphenyl-d14 (Surr)	*101*		*79 - 130*	*02/03/21 07:22*	*02/04/21 21:53*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.42	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
4,4'-DDE	ND		2.1	0.45	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
4,4'-DDT	ND		2.1	0.50	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Aldrin	ND		2.1	0.53	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
alpha-BHC	ND		2.1	0.39	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
cis-Chlordane	ND		2.1	1.1	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
beta-BHC	ND		2.1	0.39	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
delta-BHC	ND		2.1	0.40	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Dieldrin	ND		2.1	0.51	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Endosulfan I	ND		2.1	0.41	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Endosulfan II	ND		2.1	0.39	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Endosulfan sulfate	ND	*+	2.1	0.40	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Endrin	ND		2.1	0.42	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Endrin aldehyde	ND		2.1	0.55	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Endrin ketone	ND		2.1	0.53	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
gamma-BHC (Lindane)	ND		2.1	0.39	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-14 2-3
Date Collected: 02/01/21 12:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-3
Matrix: Solid
Percent Solids: 77.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		2.1	0.68	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Heptachlor	ND		2.1	0.46	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Heptachlor epoxide	ND		2.1	0.55	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Methoxychlor	ND		2.1	0.44	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1
Toxaphene	ND		21	12	ug/Kg	☼	02/04/21 07:39	02/04/21 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*45 - 120*	*02/04/21 07:39*	*02/04/21 16:25*	*1*
Tetrachloro-m-xylene	*106*		*30 - 124*	*02/04/21 07:39*	*02/04/21 16:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.060	mg/Kg	☼	02/05/21 07:40	02/08/21 23:06	1
PCB-1221	ND		0.31	0.060	mg/Kg	☼	02/05/21 07:40	02/08/21 23:06	1
PCB-1232	ND		0.31	0.060	mg/Kg	☼	02/05/21 07:40	02/08/21 23:06	1
PCB-1242	ND		0.31	0.060	mg/Kg	☼	02/05/21 07:40	02/08/21 23:06	1
PCB-1248	ND		0.31	0.060	mg/Kg	☼	02/05/21 07:40	02/08/21 23:06	1
PCB-1254	ND		0.31	0.14	mg/Kg	☼	02/05/21 07:40	02/08/21 23:06	1
PCB-1260	ND		0.31	0.14	mg/Kg	☼	02/05/21 07:40	02/08/21 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*129*		*60 - 154*	*02/05/21 07:40*	*02/08/21 23:06*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*02/05/21 07:40*	*02/08/21 23:06*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.8	ug/Kg	☼	02/03/21 07:26	02/09/21 10:58	1
Silvex (2,4,5-TP)	ND		21	7.7	ug/Kg	☼	02/03/21 07:26	02/09/21 10:58	1
2,4-D	ND		21	13	ug/Kg	☼	02/03/21 07:26	02/09/21 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*02/03/21 07:26*	*02/09/21 10:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19300**		12.8		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Antimony	ND		19.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Arsenic	**3.8**		2.6		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Barium	**51.1**		0.64		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Beryllium	**0.98**		0.26		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Cadmium	ND		0.26		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Calcium	**3020**		64.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Chromium	**31.8**		0.64		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Cobalt	**17.9**		0.64		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Copper	**19.4**		1.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Iron	**29300**		12.8		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Lead	**8.2**		1.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Magnesium	**6430**		25.7		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Manganese	**422**		0.26		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Nickel	**57.2**		6.4		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Potassium	**3350**		38.5		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-14 2-3
Date Collected: 02/01/21 12:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-3
Matrix: Solid
Percent Solids: 77.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Silver	ND		0.77		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Sodium	ND		180		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Thallium	ND		7.7		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Vanadium	**29.9**		0.64		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1
Zinc	**59.0**		2.6		mg/Kg	☼	02/04/21 15:54	02/05/21 14:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.052**		0.023		mg/Kg	☼	02/04/21 10:55	02/04/21 13:59	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-13 4-5
Date Collected: 02/01/21 15:00
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-4
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,1,2-Trichloroethane	ND		4.8	0.63	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,1-Dichloroethane	ND		4.8	0.59	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,1-Dichloroethene	ND		4.8	0.59	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,2-Dichlorobenzene	ND		4.8	0.38	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,4-Dichlorobenzene	ND		4.8	0.67	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Acetone	**4.1**	**J**	24	4.1	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Benzene	ND		4.8	0.24	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Bromodichloromethane	ND		4.8	0.64	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Carbon tetrachloride	ND		4.8	0.47	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Chlorobenzene	ND		4.8	0.64	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Dibromochloromethane	ND		4.8	0.62	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Chloroform	ND		4.8	0.30	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
cis-1,2-Dichloroethene	ND		4.8	0.62	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Cyclohexane	ND		4.8	0.67	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Dichlorodifluoromethane	ND		4.8	0.40	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
1,2-Dibromoethane	ND		4.8	0.62	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Isopropylbenzene	ND		4.8	0.73	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Methylene Chloride	**4.0**	**J**	4.8	2.2	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Styrene	ND		4.8	0.24	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Tetrachloroethene	ND		4.8	0.65	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Toluene	ND		4.8	0.36	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
trans-1,2-Dichloroethene	ND		4.8	0.50	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Trichloroethene	ND		4.8	1.1	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Trichlorofluoromethane	ND		4.8	0.46	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Vinyl chloride	ND		4.8	0.59	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1
Xylenes, Total	ND		9.6	0.81	ug/Kg	☼	02/02/21 10:15	02/05/21 14:19	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-13 4-5
Date Collected: 02/01/21 15:00
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-4
Matrix: Solid
Percent Solids: 80.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*71 - 125*	*02/02/21 10:15*	*02/05/21 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*02/02/21 10:15*	*02/05/21 14:19*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*02/02/21 10:15*	*02/05/21 14:19*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*02/02/21 10:15*	*02/05/21 14:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	68	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2,4-Dinitrophenol	ND		2100	970	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2-Chlorophenol	ND		410	38	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2-Methylphenol	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
2-Nitrophenol	ND		210	60	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4-Methylphenol	ND		410	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Acenaphthene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Acenaphthylene	ND		210	27	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Acetophenone	ND		210	29	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Anthracene	ND		210	52	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Atrazine	ND		210	73	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Benzaldehyde	ND		210	170	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Biphenyl	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Caprolactam	ND		210	63	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Carbazole	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1

Client Sample ID: MW-13 4-5
Lab Sample ID: 480-180749-4
Date Collected: 02/01/21 15:00
Matrix: Solid
Date Received: 02/02/21 08:45
Percent Solids: 80.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		210	47	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Dibenzofuran	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Fluoranthene	ND		210	22	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Fluorene	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Hexachloroethane	ND		210	27	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Isophorone	ND		210	45	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Naphthalene	ND		210	27	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Nitrobenzene	ND		210	24	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Phenanthrene	ND		210	31	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Phenol	ND		210	32	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1
Pyrene	ND		210	25	ug/Kg	☼	02/03/21 07:22	02/04/21 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*54 - 120*	*02/03/21 07:22*	*02/04/21 22:17*	*1*
2-Fluorobiphenyl	*87*		*60 - 120*	*02/03/21 07:22*	*02/04/21 22:17*	*1*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*02/03/21 07:22*	*02/04/21 22:17*	*1*
Nitrobenzene-d5 (Surr)	*83*		*53 - 120*	*02/03/21 07:22*	*02/04/21 22:17*	*1*
Phenol-d5 (Surr)	*85*		*54 - 120*	*02/03/21 07:22*	*02/04/21 22:17*	*1*
p-Terphenyl-d14 (Surr)	*93*		*79 - 130*	*02/03/21 07:22*	*02/04/21 22:17*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
4,4'-DDE	ND		2.0	0.43	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Aldrin	ND		2.0	0.50	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
alpha-BHC	ND		2.0	0.37	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
cis-Chlordane	ND		2.0	1.0	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
beta-BHC	ND		2.0	0.37	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
delta-BHC	**0.64**	**J**	2.0	0.38	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Dieldrin	ND		2.0	0.49	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Endosulfan II	ND		2.0	0.37	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Endosulfan sulfate	ND	*+	2.0	0.38	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Endrin	ND		2.0	0.40	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Endrin aldehyde	ND		2.0	0.52	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Endrin ketone	ND		2.0	0.50	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1

Client Sample ID: MW-13 4-5
Lab Sample ID: 480-180749-4
Date Collected: 02/01/21 15:00
Matrix: Solid
Date Received: 02/02/21 08:45
Percent Solids: 80.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		2.0	0.65	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Heptachlor	ND		2.0	0.44	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1
Toxaphene	ND		20	12	ug/Kg	☼	02/04/21 07:39	02/04/21 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*45 - 120*	*02/04/21 07:39*	*02/04/21 16:51*	*1*
Tetrachloro-m-xylene	*103*		*30 - 124*	*02/04/21 07:39*	*02/04/21 16:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	02/05/21 07:40	02/08/21 23:19	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	02/05/21 07:40	02/08/21 23:19	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	02/05/21 07:40	02/08/21 23:19	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	02/05/21 07:40	02/08/21 23:19	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	02/05/21 07:40	02/08/21 23:19	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	02/05/21 07:40	02/08/21 23:19	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	02/05/21 07:40	02/08/21 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*128*		*60 - 154*	*02/05/21 07:40*	*02/08/21 23:19*	*1*
DCB Decachlorobiphenyl	*131*		*65 - 174*	*02/05/21 07:40*	*02/08/21 23:19*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.5	ug/Kg	☼	02/03/21 07:26	02/09/21 11:28	1
Silvex (2,4,5-TP)	ND		20	7.4	ug/Kg	☼	02/03/21 07:26	02/09/21 11:28	1
2,4-D	ND		20	13	ug/Kg	☼	02/03/21 07:26	02/09/21 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*53*		*28 - 129*	*02/03/21 07:26*	*02/09/21 11:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21500**		12.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Antimony	ND		18.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Arsenic	**2.8**		2.4		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Barium	**63.2**		0.61		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Beryllium	**1.0**		0.24		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Cadmium	ND		0.24		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Calcium	**18700**		61.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Chromium	**36.3**		0.61		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Cobalt	**20.2**		0.61		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Copper	**16.0**		1.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Iron	**33400**		12.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Lead	**3.7**		1.2		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Magnesium	**9630**		24.5		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Manganese	**318**		0.24		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Nickel	**67.2**		6.1		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Potassium	**4140**		36.7		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-13 4-5
Date Collected: 02/01/21 15:00
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-4
Matrix: Solid
Percent Solids: 80.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.9		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Silver	ND		0.73		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Sodium	ND		171		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Thallium	ND		7.3		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Vanadium	**32.0**		0.61		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1
Zinc	**55.8**		2.4		mg/Kg	☼	02/04/21 15:54	02/05/21 14:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.020		mg/Kg	☼	02/04/21 10:55	02/04/21 14:01	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

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

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-180749-1	MW-11 4-5	99	104	98	97
480-180749-2	MW-10 4-5	101	106	100	101
480-180749-3	MW-14 2-3	102	110	98	104
480-180749-4	MW-13 4-5	99	108	102	100
LCS 480-568127/1-A	Lab Control Sample	98	106	104	95
MB 480-568127/2-A	Method Blank	97	106	102	97

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-180749-1	MW-11 4-5	110	88	80	86	84	100
480-180749-2	MW-10 4-5	110	94	84	89	91	102
480-180749-3	MW-14 2-3	122 S1+	94	85	89	92	101
480-180749-4	MW-13 4-5	102	87	78	83	85	93
LCS 480-568181/2-A	Lab Control Sample	114	86	76	76	79	90
MB 480-568181/1-A	Method Blank	103	81	78	81	84	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(45-120)	(30-124)
480-180749-1	MW-11 4-5	96	109
480-180749-1 MS	MW-11 4-5	97	96
480-180749-1 MSD	MW-11 4-5	96	97
480-180749-2	MW-10 4-5	92	85
480-180749-3	MW-14 2-3	109	106
480-180749-4	MW-13 4-5	98	103
LCS 480-568337/2-A	Lab Control Sample	103	108
MB 480-568337/1-A	Method Blank	106	104

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCBP1								
Lab Sample ID	Client Sample ID	(60-154)	(65-174)								
480-180749-1	MW-11 4-5	132	122								
480-180749-2	MW-10 4-5	117	121								
480-180749-3	MW-14 2-3	129	130								
480-180749-4	MW-13 4-5	128	131								
LCS 480-568447/2-A	Lab Control Sample	153	164								
MB 480-568447/1-A	Method Blank	132	129								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1									
Lab Sample ID	Client Sample ID	(28-129)									
480-180749-1	MW-11 4-5	66									
480-180749-2	MW-10 4-5	58									
480-180749-3	MW-14 2-3	66									
480-180749-4	MW-13 4-5	53									
LCS 480-568183/2-A	Lab Control Sample	65									
MB 480-568183/1-A	Method Blank	65									

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 480-568127/2-A
Matrix: Solid
Analysis Batch: 568047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
2-Hexanone	ND		25	2.5	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Acetone	ND		25	4.2	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Benzene	ND		5.0	0.25	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Bromoform	ND		5.0	2.5	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Chloroform	ND		5.0	0.31	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Methyl acetate	ND		25	3.0	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Styrene	ND		5.0	0.25	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Toluene	ND		5.0	0.38	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/02/21 10:15	02/02/21 11:29	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/02/21 10:15	02/02/21 11:29	1

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

Lab Sample ID: MB 480-568127/2-A
Matrix: Solid
Analysis Batch: 568047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568127

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*71 - 125*	*02/02/21 10:15*	*02/02/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*02/02/21 10:15*	*02/02/21 11:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*02/02/21 10:15*	*02/02/21 11:29*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 140*	*02/02/21 10:15*	*02/02/21 11:29*	*1*

Lab Sample ID: LCS 480-568127/1-A
Matrix: Solid
Analysis Batch: 568047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	42.6		ug/Kg		85	77 - 121
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/Kg		99	80 - 120
1,1,2-Trichloroethane	50.0	48.8		ug/Kg		98	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	34.7		ug/Kg		69	60 - 140
1,1-Dichloroethane	50.0	42.7		ug/Kg		85	73 - 126
1,1-Dichloroethene	50.0	38.1		ug/Kg		76	59 - 125
1,2,4-Trichlorobenzene	50.0	39.1		ug/Kg		78	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/Kg		101	63 - 124
1,2-Dichlorobenzene	50.0	42.1		ug/Kg		84	75 - 120
1,2-Dichloroethane	50.0	46.6		ug/Kg		93	77 - 122
1,2-Dichloropropane	50.0	48.0		ug/Kg		96	75 - 124
1,3-Dichlorobenzene	50.0	46.4		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	73 - 120
2-Butanone (MEK)	250	270		ug/Kg		108	70 - 134
2-Hexanone	250	305		ug/Kg		122	59 - 130
4-Methyl-2-pentanone (MIBK)	250	248		ug/Kg		99	65 - 133
Acetone	250	206		ug/Kg		82	61 - 137
Benzene	50.0	44.1		ug/Kg		88	79 - 127
Bromodichloromethane	50.0	48.3		ug/Kg		97	80 - 122
Bromoform	50.0	54.4		ug/Kg		109	68 - 126
Bromomethane	50.0	43.0		ug/Kg		86	37 - 149
Carbon disulfide	50.0	35.8		ug/Kg		72	64 - 131
Carbon tetrachloride	50.0	42.7		ug/Kg		85	75 - 135
Chlorobenzene	50.0	46.5		ug/Kg		93	76 - 124
Dibromochloromethane	50.0	49.4		ug/Kg		99	76 - 125
Chloroethane	50.0	43.3		ug/Kg		87	69 - 135
Chloroform	50.0	42.3		ug/Kg		85	80 - 120
Chloromethane	50.0	42.1		ug/Kg		84	63 - 127
cis-1,2-Dichloroethene	50.0	42.1		ug/Kg		84	81 - 120
cis-1,3-Dichloropropene	50.0	54.3		ug/Kg		109	80 - 120
Cyclohexane	50.0	37.1		ug/Kg		74	65 - 120
Dichlorodifluoromethane	50.0	38.1		ug/Kg		76	57 - 142
Ethylbenzene	50.0	45.7		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	50.4		ug/Kg		101	78 - 120
Isopropylbenzene	50.0	44.2		ug/Kg		88	72 - 120
Methyl acetate	100	98.6		ug/Kg		99	55 - 136
Methyl tert-butyl ether	50.0	41.8		ug/Kg		84	63 - 125
Methylcyclohexane	50.0	38.2		ug/Kg		76	60 - 140

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

Lab Sample ID: LCS 480-568127/1-A
Matrix: Solid
Analysis Batch: 568047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	41.0		ug/Kg		82	61 - 127
Styrene	50.0	49.0		ug/Kg		98	80 - 120
Tetrachloroethene	50.0	42.8		ug/Kg		86	74 - 122
Toluene	50.0	44.8		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	40.9		ug/Kg		82	78 - 126
trans-1,3-Dichloropropene	50.0	54.0		ug/Kg		108	73 - 123
Trichloroethene	50.0	45.5		ug/Kg		91	77 - 129
Trichlorofluoromethane	50.0	40.1		ug/Kg		80	65 - 146
Vinyl chloride	50.0	41.8		ug/Kg		84	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*
Dibromofluoromethane (Surr)	*95*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-568181/1-A
Matrix: Solid
Analysis Batch: 568387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		99	54	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2-Chloronaphthalene	ND		170	28	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2-Chlorophenol	ND		330	31	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2-Methylnaphthalene	ND		170	34	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2-Methylphenol	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2-Nitroaniline	ND		330	25	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
2-Nitrophenol	ND		170	48	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
3-Nitroaniline	ND		330	47	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4-Chloroaniline	ND		170	42	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4-Methylphenol	ND		330	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4-Nitroaniline	ND		330	88	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
4-Nitrophenol	ND		330	120	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Acenaphthene	ND		170	25	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Acenaphthylene	ND		170	22	ug/Kg		02/03/21 07:22	02/04/21 12:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-568181/1-A
Matrix: Solid
Analysis Batch: 568387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		170	23	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Anthracene	ND		170	42	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Atrazine	ND		170	58	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Benzaldehyde	ND		170	130	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Biphenyl	ND		170	25	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Caprolactam	ND		170	51	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Carbazole	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Chrysene	ND		170	38	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Dibenzofuran	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Diethyl phthalate	ND		170	22	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Dimethyl phthalate	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Fluoranthene	ND		170	18	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Fluorene	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Hexachlorobenzene	ND		170	23	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Hexachlorobutadiene	ND		170	25	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Hexachloroethane	ND		170	22	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Isophorone	ND		170	36	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Naphthalene	ND		170	22	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Nitrobenzene	ND		170	19	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Pentachlorophenol	ND		330	170	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Phenanthrene	ND		170	25	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Phenol	ND		170	26	ug/Kg		02/03/21 07:22	02/04/21 12:56	1
Pyrene	ND		170	20	ug/Kg		02/03/21 07:22	02/04/21 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*54 - 120*	*02/03/21 07:22*	*02/04/21 12:56*	*1*
2-Fluorobiphenyl	*81*		*60 - 120*	*02/03/21 07:22*	*02/04/21 12:56*	*1*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*02/03/21 07:22*	*02/04/21 12:56*	*1*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*02/03/21 07:22*	*02/04/21 12:56*	*1*
Phenol-d5 (Surr)	*84*		*54 - 120*	*02/03/21 07:22*	*02/04/21 12:56*	*1*
p-Terphenyl-d14 (Surr)	*93*		*79 - 130*	*02/03/21 07:22*	*02/04/21 12:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-568181/2-A
Matrix: Solid
Analysis Batch: 568387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1640	599		ug/Kg		36	23 - 120
2,4,5-Trichlorophenol	1640	1590		ug/Kg		97	59 - 126
2,4,6-Trichlorophenol	1640	1580		ug/Kg		96	59 - 123
2,4-Dichlorophenol	1640	1450		ug/Kg		88	61 - 120
2,4-Dimethylphenol	1640	1470		ug/Kg		90	59 - 120
2,4-Dinitrophenol	3280	2840		ug/Kg		87	41 - 146
2,4-Dinitrotoluene	1640	1550		ug/Kg		95	63 - 120
2,6-Dinitrotoluene	1640	1490		ug/Kg		91	66 - 120
2-Chloronaphthalene	1640	1360		ug/Kg		83	57 - 120
2-Chlorophenol	1640	1260		ug/Kg		77	53 - 120
2-Methylnaphthalene	1640	1310		ug/Kg		80	59 - 120
2-Methylphenol	1640	1330		ug/Kg		81	54 - 120
2-Nitroaniline	1640	1450		ug/Kg		88	61 - 120
2-Nitrophenol	1640	1240		ug/Kg		76	56 - 120
3,3'-Dichlorobenzidine	3280	2530		ug/Kg		77	54 - 120
3-Nitroaniline	1640	1170		ug/Kg		71	48 - 120
4,6-Dinitro-2-methylphenol	3280	3040		ug/Kg		93	49 - 122
4-Bromophenyl phenyl ether	1640	1560		ug/Kg		95	58 - 120
4-Chloro-3-methylphenol	1640	1560		ug/Kg		95	61 - 120
4-Chloroaniline	1640	1030		ug/Kg		63	38 - 120
4-Chlorophenyl phenyl ether	1640	1460		ug/Kg		89	63 - 124
4-Methylphenol	1640	1400		ug/Kg		85	55 - 120
4-Nitroaniline	1640	1400		ug/Kg		85	56 - 120
4-Nitrophenol	3280	3910		ug/Kg		119	43 - 147
Acenaphthene	1640	1410		ug/Kg		86	62 - 120
Acenaphthylene	1640	1400		ug/Kg		85	58 - 121
Acetophenone	1640	1360		ug/Kg		83	54 - 120
Anthracene	1640	1430		ug/Kg		87	62 - 120
Atrazine	3280	3300		ug/Kg		101	60 - 127
Benzaldehyde	3280	2000		ug/Kg		61	10 - 150
Benzo[a]anthracene	1640	1400		ug/Kg		85	65 - 120
Benzo[a]pyrene	1640	1510		ug/Kg		92	64 - 120
Benzo[b]fluoranthene	1640	1530		ug/Kg		93	64 - 120
Benzo[g,h,i]perylene	1640	1530		ug/Kg		93	45 - 145
Benzo[k]fluoranthene	1640	1450		ug/Kg		88	65 - 120
Biphenyl	1640	1420		ug/Kg		87	59 - 120
bis (2-chloroisopropyl) ether	1640	1090		ug/Kg		67	44 - 120
Bis(2-chloroethoxy)methane	1640	1220		ug/Kg		74	55 - 120
Bis(2-chloroethyl)ether	1640	1180		ug/Kg		72	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1550		ug/Kg		95	61 - 133
Butyl benzyl phthalate	1640	1490		ug/Kg		91	61 - 129
Caprolactam	3280	2580		ug/Kg		78	47 - 120
Carbazole	1640	1470		ug/Kg		90	65 - 120
Chrysene	1640	1410		ug/Kg		86	64 - 120
Dibenz(a,h)anthracene	1640	1530		ug/Kg		93	54 - 132
Dibenzofuran	1640	1480		ug/Kg		90	63 - 120
Diethyl phthalate	1640	1630		ug/Kg		99	66 - 120
Dimethyl phthalate	1640	1540		ug/Kg		94	65 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-568181/2-A
Matrix: Solid
Analysis Batch: 568387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	1640	1660		ug/Kg		101	58 - 130
Di-n-octyl phthalate	1640	1590		ug/Kg		97	57 - 133
Fluoranthene	1640	1550		ug/Kg		95	62 - 120
Fluorene	1640	1410		ug/Kg		86	63 - 120
Hexachlorobenzene	1640	1590		ug/Kg		97	60 - 120
Hexachlorobutadiene	1640	1520		ug/Kg		93	45 - 120
Hexachlorocyclopentadiene	1640	1400		ug/Kg		85	47 - 120
Hexachloroethane	1640	1320		ug/Kg		81	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1500		ug/Kg		92	56 - 134
Isophorone	1640	1320		ug/Kg		80	56 - 120
Naphthalene	1640	1280		ug/Kg		78	55 - 120
Nitrobenzene	1640	1280		ug/Kg		78	54 - 120
N-Nitrosodi-n-propylamine	1640	1290		ug/Kg		79	52 - 120
N-Nitrosodiphenylamine	1640	1440		ug/Kg		88	51 - 128
Pentachlorophenol	3280	3390		ug/Kg		103	51 - 120
Phenanthrene	1640	1430		ug/Kg		87	60 - 120
Phenol	1640	1250		ug/Kg		76	53 - 120
Pyrene	1640	1410		ug/Kg		86	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*54 - 120*
2-Fluorobiphenyl	*86*		*60 - 120*
2-Fluorophenol (Surr)	*76*		*52 - 120*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*
Phenol-d5 (Surr)	*79*		*54 - 120*
p-Terphenyl-d14 (Surr)	*90*		*79 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-568337/1-A
Matrix: Solid
Analysis Batch: 568333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Aldrin	ND		1.7	0.41	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
alpha-BHC	ND		1.7	0.30	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
cis-Chlordane	ND		1.7	0.82	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
beta-BHC	ND		1.7	0.30	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
delta-BHC	ND		1.7	0.31	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Dieldrin	ND		1.7	0.40	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Endosulfan I	ND		1.7	0.32	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Endosulfan II	ND		1.7	0.30	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Endrin	ND		1.7	0.33	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Endrin ketone	ND		1.7	0.41	ug/Kg		02/04/21 07:39	02/04/21 13:54	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-568337/1-A
Matrix: Solid
Analysis Batch: 568333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Heptachlor	ND		1.7	0.36	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Methoxychlor	ND		1.7	0.34	ug/Kg		02/04/21 07:39	02/04/21 13:54	1
Toxaphene	ND		17	9.6	ug/Kg		02/04/21 07:39	02/04/21 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*45 - 120*	*02/04/21 07:39*	*02/04/21 13:54*	*1*
Tetrachloro-m-xylene	*104*		*30 - 124*	*02/04/21 07:39*	*02/04/21 13:54*	*1*

Lab Sample ID: LCS 480-568337/2-A
Matrix: Solid
Analysis Batch: 568333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.6	17.7		ug/Kg		107	56 - 120
4,4'-DDE	16.6	14.7		ug/Kg		89	44 - 120
4,4'-DDT	16.6	18.0		ug/Kg		108	38 - 120
Aldrin	16.6	13.4		ug/Kg		81	38 - 120
alpha-BHC	16.6	13.8		ug/Kg		83	39 - 120
cis-Chlordane	16.6	16.0		ug/Kg		96	47 - 120
beta-BHC	16.6	17.4		ug/Kg		105	40 - 120
delta-BHC	16.6	15.3		ug/Kg		92	45 - 120
Dieldrin	16.6	16.6		ug/Kg		100	58 - 120
Endosulfan I	16.6	15.8		ug/Kg		95	49 - 120
Endosulfan II	16.6	18.8		ug/Kg		113	55 - 120
Endosulfan sulfate	16.6	22.7	*+	ug/Kg		137	49 - 124
Endrin	16.6	17.0		ug/Kg		103	58 - 120
Endrin aldehyde	16.6	17.7		ug/Kg		107	37 - 121
Endrin ketone	16.6	18.8		ug/Kg		113	46 - 123
gamma-BHC (Lindane)	16.6	15.7		ug/Kg		95	50 - 120
trans-Chlordane	16.6	16.0		ug/Kg		97	48 - 120
Heptachlor	16.6	14.8		ug/Kg		89	50 - 120
Heptachlor epoxide	16.6	16.2		ug/Kg		98	50 - 120
Methoxychlor	16.6	19.8		ug/Kg		120	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*45 - 120*
Tetrachloro-m-xylene	*108*		*30 - 124*

Lab Sample ID: 480-180749-1 MS
Matrix: Solid
Analysis Batch: 568333

Client Sample ID: MW-11 4-5
Prep Type: Total/NA
Prep Batch: 568337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		18.8	19.3		ug/Kg	☼	102	37 - 126
4,4'-DDE	ND		18.8	16.4		ug/Kg	☼	88	34 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-180749-1 MS
Matrix: Solid
Analysis Batch: 568333

Client Sample ID: MW-11 4-5
Prep Type: Total/NA
Prep Batch: 568337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDT	0.68	J	18.8	19.9		ug/Kg	☼	102	43 - 123
Aldrin	ND		18.8	16.0		ug/Kg	☼	85	37 - 125
alpha-BHC	ND		18.8	14.7		ug/Kg	☼	78	39 - 120
cis-Chlordane	ND		18.8	16.5		ug/Kg	☼	88	35 - 120
beta-BHC	ND		18.8	18.8		ug/Kg	☼	100	36 - 120
delta-BHC	0.63	J	18.8	17.2		ug/Kg	☼	88	34 - 120
Dieldrin	ND		18.8	17.5		ug/Kg	☼	93	45 - 120
Endosulfan I	ND		18.8	17.1		ug/Kg	☼	91	39 - 120
Endosulfan II	ND		18.8	20.3		ug/Kg	☼	108	34 - 126
Endosulfan sulfate	ND	*+	18.8	23.1		ug/Kg	☼	123	27 - 130
Endrin	ND		18.8	18.4		ug/Kg	☼	98	47 - 121
Endrin aldehyde	ND		18.8	16.6		ug/Kg	☼	88	33 - 123
Endrin ketone	ND		18.8	20.1		ug/Kg	☼	107	43 - 126
gamma-BHC (Lindane)	ND		18.8	16.9		ug/Kg	☼	90	50 - 120
trans-Chlordane	ND		18.8	16.5		ug/Kg	☼	88	31 - 120
Heptachlor	ND		18.8	15.9		ug/Kg	☼	85	42 - 120
Heptachlor epoxide	ND		18.8	18.3		ug/Kg	☼	97	40 - 120
Methoxychlor	ND		18.8	20.5		ug/Kg	☼	109	44 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*45 - 120*
Tetrachloro-m-xylene	*96*		*30 - 124*

Lab Sample ID: 480-180749-1 MSD
Matrix: Solid
Analysis Batch: 568333

Client Sample ID: MW-11 4-5
Prep Type: Total/NA
Prep Batch: 568337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		18.7	18.8		ug/Kg	☼	100	37 - 126	3	21
4,4'-DDE	ND		18.7	16.7		ug/Kg	☼	90	34 - 120	2	18
4,4'-DDT	0.68	J	18.7	19.3		ug/Kg	☼	99	43 - 123	3	25
Aldrin	ND		18.7	16.0		ug/Kg	☼	86	37 - 125	0	12
alpha-BHC	ND		18.7	14.8		ug/Kg	☼	79	39 - 120	1	15
cis-Chlordane	ND		18.7	16.3		ug/Kg	☼	87	35 - 120	1	23
beta-BHC	ND		18.7	18.0		ug/Kg	☼	96	36 - 120	4	19
delta-BHC	0.63	J	18.7	17.5		ug/Kg	☼	90	34 - 120	1	14
Dieldrin	ND		18.7	17.8		ug/Kg	☼	95	45 - 120	2	12
Endosulfan I	ND		18.7	16.8		ug/Kg	☼	90	39 - 120	1	18
Endosulfan II	ND		18.7	20.1		ug/Kg	☼	108	34 - 126	1	26
Endosulfan sulfate	ND	*+	18.7	23.5		ug/Kg	☼	126	27 - 130	2	35
Endrin	ND		18.7	18.1		ug/Kg	☼	97	47 - 121	1	20
Endrin aldehyde	ND		18.7	18.7		ug/Kg	☼	100	33 - 123	12	47
Endrin ketone	ND		18.7	19.9		ug/Kg	☼	106	43 - 126	1	37
gamma-BHC (Lindane)	ND		18.7	16.4		ug/Kg	☼	88	50 - 120	3	12
trans-Chlordane	ND		18.7	16.0		ug/Kg	☼	86	31 - 120	3	15
Heptachlor	ND		18.7	15.9		ug/Kg	☼	85	42 - 120	0	22
Heptachlor epoxide	ND		18.7	17.6		ug/Kg	☼	94	40 - 120	4	15
Methoxychlor	ND		18.7	19.9		ug/Kg	☼	106	44 - 150	3	24

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-180749-1 MSD
Matrix: Solid
Analysis Batch: 568333

Client Sample ID: MW-11 4-5
Prep Type: Total/NA
Prep Batch: 568337

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	96		45 - 120
Tetrachloro-m-xylene	97		30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-568447/1-A
Matrix: Solid
Analysis Batch: 568681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg		02/05/21 07:40	02/08/21 21:40	1
PCB-1221	ND		0.25	0.048	mg/Kg		02/05/21 07:40	02/08/21 21:40	1
PCB-1232	ND		0.25	0.048	mg/Kg		02/05/21 07:40	02/08/21 21:40	1
PCB-1242	ND		0.25	0.048	mg/Kg		02/05/21 07:40	02/08/21 21:40	1
PCB-1248	ND		0.25	0.048	mg/Kg		02/05/21 07:40	02/08/21 21:40	1
PCB-1254	ND		0.25	0.11	mg/Kg		02/05/21 07:40	02/08/21 21:40	1
PCB-1260	ND		0.25	0.11	mg/Kg		02/05/21 07:40	02/08/21 21:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	132		60 - 154	02/05/21 07:40	02/08/21 21:40	1
DCB Decachlorobiphenyl	129		65 - 174	02/05/21 07:40	02/08/21 21:40	1

Lab Sample ID: LCS 480-568447/2-A
Matrix: Solid
Analysis Batch: 568681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.33	3.29		mg/Kg		142	51 - 185
PCB-1260	2.33	3.56		mg/Kg		153	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	153		60 - 154
DCB Decachlorobiphenyl	164		65 - 174

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-568183/1-A
Matrix: Solid
Analysis Batch: 568731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.2	ug/Kg		02/03/21 07:26	02/09/21 08:59	1
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		02/03/21 07:26	02/09/21 08:59	1
2,4-D	ND		16	10	ug/Kg		02/03/21 07:26	02/09/21 08:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	65		28 - 129	02/03/21 07:26	02/09/21 08:59	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-568183/2-A
Matrix: Solid
Analysis Batch: 568731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	66.2	56.7		ug/Kg		86	41 - 120
Silvex (2,4,5-TP)	66.2	54.1		ug/Kg		82	39 - 125
2,4-D	66.2	51.7		ug/Kg		78	40 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*65*		*28 - 129*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-568393/1-A
Matrix: Solid
Analysis Batch: 568622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.3		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Antimony	ND		15.5		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Arsenic	ND		2.1		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Barium	ND		0.52		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Beryllium	ND		0.21		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Cadmium	ND		0.21		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Calcium	ND		51.5		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Chromium	ND		0.52		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Cobalt	ND		0.52		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Copper	ND		1.0		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Iron	ND		10.3		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Lead	ND		1.0		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Magnesium	ND		20.6		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Manganese	ND		0.21		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Nickel	ND		5.2		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Potassium	ND		30.9		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Selenium	ND		4.1		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Silver	ND		0.62		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Sodium	ND		144		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Thallium	ND		6.2		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Vanadium	ND		0.52		mg/Kg		02/04/21 15:54	02/05/21 14:15	1
Zinc	ND		2.1		mg/Kg		02/04/21 15:54	02/05/21 14:15	1

Lab Sample ID: LCSSRM 480-568393/2-A
Matrix: Solid
Analysis Batch: 568622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568393

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8983		mg/Kg		109.7	50.1 - 150.2
Antimony	110	81.49		mg/Kg		74.1	22.2 - 254.5
Arsenic	162	142.8		mg/Kg		88.1	70.4 - 130.2
Barium	138	121.9		mg/Kg		88.3	74.6 - 124.6

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-568393/2-A
Matrix: Solid
Analysis Batch: 568622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568393

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	157	141.5		mg/Kg		90.1	75.2 - 125.5
Cadmium	135	115.2		mg/Kg		85.4	74.8 - 124.4
Calcium	4790	4119		mg/Kg		86.0	72.7 - 127.3
Chromium	117	101.7		mg/Kg		86.9	70.1 - 129.9
Cobalt	92.6	88.70		mg/Kg		95.8	75.1 - 125.3
Copper	143	125.0		mg/Kg		87.4	74.8 - 124.5
Iron	15100	13020		mg/Kg		86.3	37.2 - 162.9
Lead	77.6	76.35		mg/Kg		98.4	68.8 - 131.4
Magnesium	2320	2196		mg/Kg		94.7	62.1 - 137.9
Manganese	319	274.6		mg/Kg		86.1	74.9 - 125.1
Nickel	79.9	78.78		mg/Kg		98.6	70.0 - 130.2
Potassium	2050	2069		mg/Kg		100.9	59.5 - 141.0
Selenium	172	152.9		mg/Kg		88.9	68.0 - 132.6
Silver	24.7	20.23		mg/Kg		81.9	67.2 - 133.2
Sodium	137	137.7	J	mg/Kg		100.5	35.8 - 164.2
Thallium	88.0	92.18		mg/Kg		104.8	66.0 - 134.1
Vanadium	99.9	90.34		mg/Kg		90.4	67.4 - 132.1
Zinc	312	258.7		mg/Kg		82.9	69.9 - 129.8

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-568290/1-A
Matrix: Solid
Analysis Batch: 568410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018		mg/Kg		02/04/21 10:55	02/04/21 13:48	1

Lab Sample ID: LCSSRM 480-568290/2-A ^10
Matrix: Solid
Analysis Batch: 568410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568290

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	27.84		mg/Kg		102.3	59.9 - 140.1

GC/MS VOA

Analysis Batch: 568047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-568127/2-A	Method Blank	Total/NA	Solid	8260C	568127
LCS 480-568127/1-A	Lab Control Sample	Total/NA	Solid	8260C	568127

Prep Batch: 568127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	5035A_L	
480-180749-2	MW-10 4-5	Total/NA	Solid	5035A_L	
480-180749-3	MW-14 2-3	Total/NA	Solid	5035A_L	
480-180749-4	MW-13 4-5	Total/NA	Solid	5035A_L	
MB 480-568127/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-568127/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 568492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	8260C	568127
480-180749-2	MW-10 4-5	Total/NA	Solid	8260C	568127
480-180749-3	MW-14 2-3	Total/NA	Solid	8260C	568127
480-180749-4	MW-13 4-5	Total/NA	Solid	8260C	568127

GC/MS Semi VOA

Prep Batch: 568181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	3550C	
480-180749-2	MW-10 4-5	Total/NA	Solid	3550C	
480-180749-3	MW-14 2-3	Total/NA	Solid	3550C	
480-180749-4	MW-13 4-5	Total/NA	Solid	3550C	
MB 480-568181/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-568181/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 568387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	8270D	568181
480-180749-2	MW-10 4-5	Total/NA	Solid	8270D	568181
480-180749-3	MW-14 2-3	Total/NA	Solid	8270D	568181
480-180749-4	MW-13 4-5	Total/NA	Solid	8270D	568181
MB 480-568181/1-A	Method Blank	Total/NA	Solid	8270D	568181
LCS 480-568181/2-A	Lab Control Sample	Total/NA	Solid	8270D	568181

GC Semi VOA

Prep Batch: 568183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	8151A	
480-180749-2	MW-10 4-5	Total/NA	Solid	8151A	
480-180749-3	MW-14 2-3	Total/NA	Solid	8151A	
480-180749-4	MW-13 4-5	Total/NA	Solid	8151A	
MB 480-568183/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-568183/2-A	Lab Control Sample	Total/NA	Solid	8151A	

GC Semi VOA

Analysis Batch: 568333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	8081B	568337
480-180749-2	MW-10 4-5	Total/NA	Solid	8081B	568337
480-180749-3	MW-14 2-3	Total/NA	Solid	8081B	568337
480-180749-4	MW-13 4-5	Total/NA	Solid	8081B	568337
MB 480-568337/1-A	Method Blank	Total/NA	Solid	8081B	568337
LCS 480-568337/2-A	Lab Control Sample	Total/NA	Solid	8081B	568337
480-180749-1 MS	MW-11 4-5	Total/NA	Solid	8081B	568337
480-180749-1 MSD	MW-11 4-5	Total/NA	Solid	8081B	568337

Prep Batch: 568337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	3550C	
480-180749-2	MW-10 4-5	Total/NA	Solid	3550C	
480-180749-3	MW-14 2-3	Total/NA	Solid	3550C	
480-180749-4	MW-13 4-5	Total/NA	Solid	3550C	
MB 480-568337/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-568337/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-180749-1 MS	MW-11 4-5	Total/NA	Solid	3550C	
480-180749-1 MSD	MW-11 4-5	Total/NA	Solid	3550C	

Prep Batch: 568447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	3550C	
480-180749-2	MW-10 4-5	Total/NA	Solid	3550C	
480-180749-3	MW-14 2-3	Total/NA	Solid	3550C	
480-180749-4	MW-13 4-5	Total/NA	Solid	3550C	
MB 480-568447/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-568447/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 568681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	8082A	568447
480-180749-2	MW-10 4-5	Total/NA	Solid	8082A	568447
480-180749-3	MW-14 2-3	Total/NA	Solid	8082A	568447
480-180749-4	MW-13 4-5	Total/NA	Solid	8082A	568447
MB 480-568447/1-A	Method Blank	Total/NA	Solid	8082A	568447
LCS 480-568447/2-A	Lab Control Sample	Total/NA	Solid	8082A	568447

Analysis Batch: 568731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	8151A	568183
480-180749-2	MW-10 4-5	Total/NA	Solid	8151A	568183
480-180749-3	MW-14 2-3	Total/NA	Solid	8151A	568183
480-180749-4	MW-13 4-5	Total/NA	Solid	8151A	568183
MB 480-568183/1-A	Method Blank	Total/NA	Solid	8151A	568183
LCS 480-568183/2-A	Lab Control Sample	Total/NA	Solid	8151A	568183

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Metals

Prep Batch: 568290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	7471B	
480-180749-2	MW-10 4-5	Total/NA	Solid	7471B	
480-180749-3	MW-14 2-3	Total/NA	Solid	7471B	
480-180749-4	MW-13 4-5	Total/NA	Solid	7471B	
MB 480-568290/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-568290/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 568393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	3050B	
480-180749-2	MW-10 4-5	Total/NA	Solid	3050B	
480-180749-3	MW-14 2-3	Total/NA	Solid	3050B	
480-180749-4	MW-13 4-5	Total/NA	Solid	3050B	
MB 480-568393/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-568393/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 568410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	7471B	568290
480-180749-2	MW-10 4-5	Total/NA	Solid	7471B	568290
480-180749-3	MW-14 2-3	Total/NA	Solid	7471B	568290
480-180749-4	MW-13 4-5	Total/NA	Solid	7471B	568290
MB 480-568290/1-A	Method Blank	Total/NA	Solid	7471B	568290
LCSSRM 480-568290/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	568290

Analysis Batch: 568622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	6010C	568393
480-180749-2	MW-10 4-5	Total/NA	Solid	6010C	568393
480-180749-3	MW-14 2-3	Total/NA	Solid	6010C	568393
480-180749-4	MW-13 4-5	Total/NA	Solid	6010C	568393
MB 480-568393/1-A	Method Blank	Total/NA	Solid	6010C	568393
LCSSRM 480-568393/2-A	Lab Control Sample	Total/NA	Solid	6010C	568393

General Chemistry

Analysis Batch: 568300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180749-1	MW-11 4-5	Total/NA	Solid	Moisture	
480-180749-2	MW-10 4-5	Total/NA	Solid	Moisture	
480-180749-3	MW-14 2-3	Total/NA	Solid	Moisture	
480-180749-4	MW-13 4-5	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Client Sample ID: MW-11 4-5

Date Collected: 02/01/21 11:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	568300	02/03/21 16:14	DSC	TAL BUF

Client Sample ID: MW-11 4-5

Date Collected: 02/01/21 11:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-1
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			568127	02/02/21 10:15	WJD	TAL BUF
Total/NA	Analysis	8260C		1	568492	02/05/21 12:59	WJD	TAL BUF
Total/NA	Prep	3550C			568181	02/03/21 07:22	VXF	TAL BUF
Total/NA	Analysis	8270D		1	568387	02/04/21 21:04	JMM	TAL BUF
Total/NA	Prep	3550C			568337	02/04/21 07:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	568333	02/04/21 15:35	JLS	TAL BUF
Total/NA	Prep	3550C			568447	02/05/21 07:40	VXF	TAL BUF
Total/NA	Analysis	8082A		1	568681	02/08/21 22:42	W1T	TAL BUF
Total/NA	Prep	8151A			568183	02/03/21 07:26	SMP	TAL BUF
Total/NA	Analysis	8151A		1	568731	02/09/21 09:59	MAN	TAL BUF
Total/NA	Prep	3050B			568393	02/04/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	568622	02/05/21 14:23	AMH	TAL BUF
Total/NA	Prep	7471B			568290	02/04/21 10:55	BMB	TAL BUF
Total/NA	Analysis	7471B		1	568410	02/04/21 13:57	BMB	TAL BUF

Client Sample ID: MW-10 4-5

Date Collected: 02/01/21 09:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	568300	02/03/21 16:14	DSC	TAL BUF

Client Sample ID: MW-10 4-5

Date Collected: 02/01/21 09:30
Date Received: 02/02/21 08:45

Lab Sample ID: 480-180749-2
Matrix: Solid
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			568127	02/02/21 10:15	WJD	TAL BUF
Total/NA	Analysis	8260C		1	568492	02/05/21 13:26	WJD	TAL BUF
Total/NA	Prep	3550C			568181	02/03/21 07:22	VXF	TAL BUF
Total/NA	Analysis	8270D		1	568387	02/04/21 21:28	JMM	TAL BUF
Total/NA	Prep	3550C			568337	02/04/21 07:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	568333	02/04/21 16:00	JLS	TAL BUF
Total/NA	Prep	3550C			568447	02/05/21 07:40	VXF	TAL BUF
Total/NA	Analysis	8082A		1	568681	02/08/21 22:54	W1T	TAL BUF
Total/NA	Prep	8151A			568183	02/03/21 07:26	SMP	TAL BUF
Total/NA	Analysis	8151A		1	568731	02/09/21 10:28	MAN	TAL BUF

Client Sample ID: MW-10 4-5 — **Lab Sample ID: 480-180749-2**
Date Collected: 02/01/21 09:30 — **Matrix: Solid**
Date Received: 02/02/21 08:45 — **Percent Solids: 89.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			568393	02/04/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	568622	02/05/21 14:26	AMH	TAL BUF
Total/NA	Prep	7471B			568290	02/04/21 10:55	BMB	TAL BUF
Total/NA	Analysis	7471B		1	568410	02/04/21 13:58	BMB	TAL BUF

Client Sample ID: MW-14 2-3 — **Lab Sample ID: 480-180749-3**
Date Collected: 02/01/21 12:30 — **Matrix: Solid**
Date Received: 02/02/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	568300	02/03/21 16:14	DSC	TAL BUF

Client Sample ID: MW-14 2-3 — **Lab Sample ID: 480-180749-3**
Date Collected: 02/01/21 12:30 — **Matrix: Solid**
Date Received: 02/02/21 08:45 — **Percent Solids: 77.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			568127	02/02/21 10:15	WJD	TAL BUF
Total/NA	Analysis	8260C		1	568492	02/05/21 13:53	WJD	TAL BUF
Total/NA	Prep	3550C			568181	02/03/21 07:22	VXF	TAL BUF
Total/NA	Analysis	8270D		1	568387	02/04/21 21:53	JMM	TAL BUF
Total/NA	Prep	3550C			568337	02/04/21 07:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	568333	02/04/21 16:25	JLS	TAL BUF
Total/NA	Prep	3550C			568447	02/05/21 07:40	VXF	TAL BUF
Total/NA	Analysis	8082A		1	568681	02/08/21 23:06	W1T	TAL BUF
Total/NA	Prep	8151A			568183	02/03/21 07:26	SMP	TAL BUF
Total/NA	Analysis	8151A		1	568731	02/09/21 10:58	MAN	TAL BUF
Total/NA	Prep	3050B			568393	02/04/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	568622	02/05/21 14:30	AMH	TAL BUF
Total/NA	Prep	7471B			568290	02/04/21 10:55	BMB	TAL BUF
Total/NA	Analysis	7471B		1	568410	02/04/21 13:59	BMB	TAL BUF

Client Sample ID: MW-13 4-5 — **Lab Sample ID: 480-180749-4**
Date Collected: 02/01/21 15:00 — **Matrix: Solid**
Date Received: 02/02/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	568300	02/03/21 16:14	DSC	TAL BUF

Client Sample ID: MW-13 4-5 — **Lab Sample ID: 480-180749-4**
Date Collected: 02/01/21 15:00 — **Matrix: Solid**
Date Received: 02/02/21 08:45 — **Percent Solids: 80.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			568127	02/02/21 10:15	WJD	TAL BUF
Total/NA	Analysis	8260C		1	568492	02/05/21 14:19	WJD	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180749-1
Project/Site: Benchmark - 3077 Union Rd

Client Sample ID: MW-13 4-5
Lab Sample ID: 480-180749-4
Date Collected: 02/01/21 15:00
Matrix: Solid
Date Received: 02/02/21 08:45
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			568181	02/03/21 07:22	VXF	TAL BUF
Total/NA	Analysis	8270D		1	568387	02/04/21 22:17	JMM	TAL BUF
Total/NA	Prep	3550C			568337	02/04/21 07:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	568333	02/04/21 16:51	JLS	TAL BUF
Total/NA	Prep	3550C			568447	02/05/21 07:40	VXF	TAL BUF
Total/NA	Analysis	8082A		1	568681	02/08/21 23:19	W1T	TAL BUF
Total/NA	Prep	8151A			568183	02/03/21 07:26	SMP	TAL BUF
Total/NA	Analysis	8151A		1	568731	02/09/21 11:28	MAN	TAL BUF
Total/NA	Prep	3050B			568393	02/04/21 15:54	ADM	TAL BUF
Total/NA	Analysis	6010C		1	568622	02/05/21 14:34	AMH	TAL BUF
Total/NA	Prep	7471B			568290	02/04/21 10:55	BMB	TAL BUF
Total/NA	Analysis	7471B		1	568410	02/04/21 14:01	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180749-1
Project/Site: Benchmark - 3077 Union Rd

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180749-1	MW-11 4-5	Solid	02/01/21 11:30	02/02/21 08:45	
480-180749-2	MW-10 4-5	Solid	02/01/21 09:30	02/02/21 08:45	
480-180749-3	MW-14 2-3	Solid	02/01/21 12:30	02/02/21 08:45	
480-180749-4	MW-13 4-5	Solid	02/01/21 15:00	02/02/21 08:45	

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-155501-34448.2
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 2 of 3
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-713-3937	PO #: T0105-017-010			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site: 3077 Union Rd	SSOW#:			

Analysis Requested

480-180749 Chain of Custody

Preservation Codes:
A - HCL
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	8081B, 8082A, 8151A, 8270D	6010C, 7471B	PFC_IDA - PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	X	
MW-11 4-5 Ft	2/1/21	11:30	G	Solid			X	X	X		3	
MW-10 4-5 Ft	2/1/21	9:30	G	Solid			X	X	X		3	
MW-14 2-3 Ft	2/1/21	12:20	G	Solid			X	X	X		3	
MW-13 4-5 Ft	2/1/21	[illegible]	G	Solid			X	X	X		3	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B. NYS Red Flags

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		2/2/21 8:45				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/2/21 845	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1 #1 ICE

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-180749-1

Login Number: 180749

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 480-182831-1
Client Project/Site: Benchmark - 3077 Union Rd

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
4/13/2021 6:33:24 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182831-1
Project/Site: Benchmark - 3077 Union Rd

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-182831-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-182831-1

Comments
No additional comments.

Receipt
The samples were received on 4/5/2021 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6º C.

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-576106 recovered above the upper control limit for 4-Nitrophenol and Di-n-butyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SB-23 9-11FT (480-182831-7).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-576106 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

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

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

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182831-1
Project/Site: Benchmark - 3077 Union Rd

Client Sample ID: SB-17 8-9FT — Lab Sample ID: 480-182831-1

No Detections.

Client Sample ID: SB-18 4-5FT — Lab Sample ID: 480-182831-2

No Detections.

Client Sample ID: SB-19 6-7FT — Lab Sample ID: 480-182831-3

No Detections.

Client Sample ID: SB-20 7-8FT — Lab Sample ID: 480-182831-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	22	3.6	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SB-21 4-6FT — Lab Sample ID: 480-182831-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.0	J	25	4.1	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.48	J	4.9	0.37	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SB-22 3-4FT — Lab Sample ID: 480-182831-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	20	J	44	7.5	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SB-23 9-11FT — Lab Sample ID: 480-182831-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J	25	4.2	ug/Kg	1	☼	8260C	Total/NA
Aluminum	10900		11.7	5.2	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.3		2.3	0.47	mg/Kg	1	☼	6010C	Total/NA
Barium	87.2		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.56		0.23	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.41		0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Calcium	82300		58.7	3.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.6		0.59	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.6		0.59	0.059	mg/Kg	1	☼	6010C	Total/NA
Copper	19.4		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	16600		11.7	4.1	mg/Kg	1	☼	6010C	Total/NA
Lead	25.2		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4580		23.5	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	599	B	0.23	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	24.0		5.9	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	2220		35.2	23.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	190		164	15.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.3		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	85.1		2.3	0.75	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.030		0.022	0.0089	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-17 8-9FT
Date Collected: 04/05/21 09:30
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-1
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.7	0.34	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.77	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,1,2-Trichloroethane	ND		4.7	0.62	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,1-Dichloroethane	ND		4.7	0.58	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,1-Dichloroethene	ND		4.7	0.58	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,2,4-Trichlorobenzene	ND		4.7	0.29	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,2-Dibromo-3-Chloropropane	ND		4.7	2.4	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,2-Dichlorobenzene	ND		4.7	0.37	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,2-Dichloroethane	ND		4.7	0.24	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,2-Dichloropropane	ND		4.7	2.4	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,3-Dichlorobenzene	ND		4.7	0.24	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,4-Dichlorobenzene	ND		4.7	0.66	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
2-Butanone (MEK)	ND		24	1.7	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Acetone	ND		24	4.0	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Benzene	ND		4.7	0.23	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Bromodichloromethane	ND		4.7	0.64	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Bromoform	ND		4.7	2.4	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Bromomethane	ND		4.7	0.43	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Carbon disulfide	ND		4.7	2.4	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Carbon tetrachloride	ND		4.7	0.46	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Chlorobenzene	ND		4.7	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Dibromochloromethane	ND		4.7	0.61	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Chloroethane	ND		4.7	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Chloroform	ND		4.7	0.29	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Chloromethane	ND		4.7	0.29	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
cis-1,2-Dichloroethene	ND		4.7	0.61	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
cis-1,3-Dichloropropene	ND		4.7	0.68	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Cyclohexane	ND		4.7	0.66	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Dichlorodifluoromethane	ND		4.7	0.39	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Ethylbenzene	ND		4.7	0.33	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
1,2-Dibromoethane	ND		4.7	0.61	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Isopropylbenzene	ND		4.7	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Methyl tert-butyl ether	ND		4.7	0.47	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Methylcyclohexane	ND		4.7	0.72	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Methylene Chloride	ND		4.7	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Styrene	ND		4.7	0.24	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Tetrachloroethene	ND		4.7	0.64	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Toluene	ND		4.7	0.36	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
trans-1,2-Dichloroethene	ND		4.7	0.49	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
trans-1,3-Dichloropropene	ND		4.7	2.1	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Trichloroethene	ND		4.7	1.0	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Trichlorofluoromethane	ND		4.7	0.45	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Vinyl chloride	ND		4.7	0.58	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1
Xylenes, Total	ND		9.5	0.80	ug/Kg	☼	04/06/21 09:16	04/06/21 15:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-17 8-9FT
Date Collected: 04/05/21 09:30
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-1
Matrix: Solid
Percent Solids: 82.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	04/06/21 09:16	04/06/21 15:57	1
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	04/06/21 09:16	04/06/21 15:57	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/06/21 09:16	04/06/21 15:57	1
Dibromofluoromethane (Surr)	98		60 - 140	04/06/21 09:16	04/06/21 15:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-18 4-5FT
Date Collected: 04/05/21 11:45
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-2
Matrix: Solid
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.5	0.40	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,1,2,2-Tetrachloroethane	ND		5.5	0.90	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,1,2-Trichloroethane	ND		5.5	0.72	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	1.3	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,1-Dichloroethane	ND		5.5	0.67	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,1-Dichloroethene	ND		5.5	0.68	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,2,4-Trichlorobenzene	ND		5.5	0.34	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,2-Dibromo-3-Chloropropane	ND		5.5	2.8	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,2-Dichlorobenzene	ND		5.5	0.43	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,2-Dichloroethane	ND		5.5	0.28	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,2-Dichloropropane	ND		5.5	2.8	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,3-Dichlorobenzene	ND		5.5	0.28	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,4-Dichlorobenzene	ND		5.5	0.77	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
2-Butanone (MEK)	ND		28	2.0	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
2-Hexanone	ND		28	2.8	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		28	1.8	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Acetone	ND		28	4.7	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Benzene	ND		5.5	0.27	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Bromodichloromethane	ND		5.5	0.74	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Bromoform	ND		5.5	2.8	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Bromomethane	ND		5.5	0.50	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Carbon disulfide	ND		5.5	2.8	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Carbon tetrachloride	ND		5.5	0.53	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Chlorobenzene	ND		5.5	0.73	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Dibromochloromethane	ND		5.5	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Chloroethane	ND		5.5	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Chloroform	ND		5.5	0.34	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Chloromethane	ND		5.5	0.33	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
cis-1,2-Dichloroethene	ND		5.5	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
cis-1,3-Dichloropropene	ND		5.5	0.80	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Cyclohexane	ND		5.5	0.77	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Dichlorodifluoromethane	ND		5.5	0.46	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Ethylbenzene	ND		5.5	0.38	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
1,2-Dibromoethane	ND		5.5	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Isopropylbenzene	ND		5.5	0.83	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Methyl acetate	ND		28	3.3	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Methyl tert-butyl ether	ND		5.5	0.54	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Methylcyclohexane	ND		5.5	0.84	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Methylene Chloride	ND		5.5	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Styrene	ND		5.5	0.28	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Tetrachloroethene	ND		5.5	0.74	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Toluene	ND		5.5	0.42	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
trans-1,2-Dichloroethene	ND		5.5	0.57	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
trans-1,3-Dichloropropene	ND		5.5	2.4	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Trichloroethene	ND		5.5	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Trichlorofluoromethane	ND		5.5	0.52	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Vinyl chloride	ND		5.5	0.67	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1
Xylenes, Total	ND		11	0.93	ug/Kg	☼	04/06/21 09:16	04/06/21 16:21	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-18 4-5FT
Date Collected: 04/05/21 11:45
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-2
Matrix: Solid
Percent Solids: 75.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125	04/06/21 09:16	04/06/21 16:21	1
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	04/06/21 09:16	04/06/21 16:21	1
4-Bromofluorobenzene (Surr)	105		72 - 126	04/06/21 09:16	04/06/21 16:21	1
Dibromofluoromethane (Surr)	95		60 - 140	04/06/21 09:16	04/06/21 16:21	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-19 6-7FT
Date Collected: 04/05/21 10:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-3
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.7	0.34	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.76	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,1,2-Trichloroethane	ND		4.7	0.61	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,1-Dichloroethane	ND		4.7	0.57	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,1-Dichloroethene	ND		4.7	0.57	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,2,4-Trichlorobenzene	ND		4.7	0.28	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,2-Dibromo-3-Chloropropane	ND		4.7	2.3	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,2-Dichlorobenzene	ND		4.7	0.37	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,2-Dichloroethane	ND		4.7	0.23	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,2-Dichloropropane	ND		4.7	2.3	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,3-Dichlorobenzene	ND		4.7	0.24	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,4-Dichlorobenzene	ND		4.7	0.65	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Acetone	ND		23	3.9	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Benzene	ND		4.7	0.23	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Bromodichloromethane	ND		4.7	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Bromoform	ND		4.7	2.3	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Bromomethane	ND		4.7	0.42	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Carbon disulfide	ND		4.7	2.3	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Carbon tetrachloride	ND		4.7	0.45	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Chlorobenzene	ND		4.7	0.62	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Dibromochloromethane	ND		4.7	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Chloroethane	ND		4.7	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Chloroform	ND		4.7	0.29	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Chloromethane	ND		4.7	0.28	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
cis-1,2-Dichloroethene	ND		4.7	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
cis-1,3-Dichloropropene	ND		4.7	0.67	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Cyclohexane	ND		4.7	0.65	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Dichlorodifluoromethane	ND		4.7	0.39	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Ethylbenzene	ND		4.7	0.32	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
1,2-Dibromoethane	ND		4.7	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Isopropylbenzene	ND		4.7	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Methyl tert-butyl ether	ND		4.7	0.46	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Methylcyclohexane	ND		4.7	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Methylene Chloride	ND		4.7	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Styrene	ND		4.7	0.23	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Tetrachloroethene	ND		4.7	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Toluene	ND		4.7	0.35	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
trans-1,2-Dichloroethene	ND		4.7	0.48	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
trans-1,3-Dichloropropene	ND		4.7	2.1	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Trichloroethene	ND		4.7	1.0	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Trichlorofluoromethane	ND		4.7	0.44	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Vinyl chloride	ND		4.7	0.57	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1
Xylenes, Total	ND		9.4	0.79	ug/Kg	☼	04/06/21 09:16	04/06/21 16:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-19 6-7FT
Date Collected: 04/05/21 10:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-3
Matrix: Solid
Percent Solids: 83.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125	04/06/21 09:16	04/06/21 16:45	1
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	04/06/21 09:16	04/06/21 16:45	1
4-Bromofluorobenzene (Surr)	104		72 - 126	04/06/21 09:16	04/06/21 16:45	1
Dibromofluoromethane (Surr)	102		60 - 140	04/06/21 09:16	04/06/21 16:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-20 7-8FT
Date Collected: 04/05/21 11:30
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-4
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.3	0.31	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,1,2,2-Tetrachloroethane	ND		4.3	0.70	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,1,2-Trichloroethane	ND		4.3	0.56	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.98	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,1-Dichloroethane	ND		4.3	0.52	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,1-Dichloroethene	ND		4.3	0.53	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,2,4-Trichlorobenzene	ND		4.3	0.26	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,2-Dibromo-3-Chloropropane	ND		4.3	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,2-Dichlorobenzene	ND		4.3	0.34	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,2-Dichloroethane	ND		4.3	0.22	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,2-Dichloropropane	ND		4.3	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,3-Dichlorobenzene	ND		4.3	0.22	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,4-Dichlorobenzene	ND		4.3	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Acetone	11	J	22	3.6	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Benzene	ND		4.3	0.21	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Bromodichloromethane	ND		4.3	0.58	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Bromoform	ND		4.3	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Bromomethane	ND		4.3	0.39	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Carbon disulfide	ND		4.3	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Carbon tetrachloride	ND		4.3	0.42	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Chlorobenzene	ND		4.3	0.57	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Dibromochloromethane	ND		4.3	0.55	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Chloroethane	ND		4.3	0.97	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Chloroform	ND		4.3	0.27	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Chloromethane	ND		4.3	0.26	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
cis-1,2-Dichloroethene	ND		4.3	0.55	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
cis-1,3-Dichloropropene	ND		4.3	0.62	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Cyclohexane	ND		4.3	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Dichlorodifluoromethane	ND		4.3	0.36	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Ethylbenzene	ND		4.3	0.30	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
1,2-Dibromoethane	ND		4.3	0.55	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Isopropylbenzene	ND		4.3	0.65	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Methyl tert-butyl ether	ND		4.3	0.42	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Methylcyclohexane	ND		4.3	0.65	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Methylene Chloride	ND		4.3	2.0	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Styrene	ND		4.3	0.22	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Tetrachloroethene	ND		4.3	0.58	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Toluene	ND		4.3	0.33	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
trans-1,2-Dichloroethene	ND		4.3	0.44	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
trans-1,3-Dichloropropene	ND		4.3	1.9	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Trichloroethene	ND		4.3	0.95	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Trichlorofluoromethane	ND		4.3	0.41	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Vinyl chloride	ND		4.3	0.52	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1
Xylenes, Total	ND		8.6	0.72	ug/Kg	☼	04/06/21 09:16	04/06/21 17:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-20 7-8FT
Date Collected: 04/05/21 11:30
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-4
Matrix: Solid
Percent Solids: 89.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 125	04/06/21 09:16	04/06/21 17:09	1
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	04/06/21 09:16	04/06/21 17:09	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/06/21 09:16	04/06/21 17:09	1
Dibromofluoromethane (Surr)	100		60 - 140	04/06/21 09:16	04/06/21 17:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-21 4-6FT
Date Collected: 04/05/21 10:30
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-5
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Acetone	**7.0**	**J**	25	4.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Benzene	ND		4.9	0.24	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Bromoform	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Carbon disulfide	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Chlorobenzene	ND		4.9	0.65	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Chloromethane	ND		4.9	0.30	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Cyclohexane	ND		4.9	0.69	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Methyl acetate	ND		25	3.0	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Methylene Chloride	ND		4.9	2.3	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Styrene	ND		4.9	0.25	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Toluene	**0.48**	**J**	4.9	0.37	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Trichloroethene	ND		4.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Vinyl chloride	ND		4.9	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1
Xylenes, Total	ND		9.8	0.83	ug/Kg	☼	04/06/21 09:16	04/06/21 17:33	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-21 4-6FT
Date Collected: 04/05/21 10:30
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-5
Matrix: Solid
Percent Solids: 80.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		71 - 125	04/06/21 09:16	04/06/21 17:33	1
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	04/06/21 09:16	04/06/21 17:33	1
4-Bromofluorobenzene (Surr)	103		72 - 126	04/06/21 09:16	04/06/21 17:33	1
Dibromofluoromethane (Surr)	98		60 - 140	04/06/21 09:16	04/06/21 17:33	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-22 3-4FT
Date Collected: 04/05/21 11:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-6
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.9	0.64	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,1,2,2-Tetrachloroethane	ND		8.9	1.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,1,2-Trichloroethane	ND		8.9	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.9	2.0	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,1-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,1-Dichloroethene	ND		8.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,2,4-Trichlorobenzene	ND		8.9	0.54	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,2-Dibromo-3-Chloropropane	ND		8.9	4.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,2-Dichlorobenzene	ND		8.9	0.69	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,2-Dichloroethane	ND		8.9	0.45	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,2-Dichloropropane	ND		8.9	4.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,3-Dichlorobenzene	ND		8.9	0.46	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,4-Dichlorobenzene	ND		8.9	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
2-Butanone (MEK)	ND		44	3.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
2-Hexanone	ND		44	4.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
4-Methyl-2-pentanone (MIBK)	ND		44	2.9	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Acetone	**20**	**J**	44	7.5	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Benzene	ND		8.9	0.43	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Bromodichloromethane	ND		8.9	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Bromoform	ND		8.9	4.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Bromomethane	ND		8.9	0.80	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Carbon disulfide	ND		8.9	4.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Carbon tetrachloride	ND		8.9	0.86	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Chlorobenzene	ND		8.9	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Dibromochloromethane	ND		8.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Chloroethane	ND		8.9	2.0	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Chloroform	ND		8.9	0.55	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Chloromethane	ND		8.9	0.54	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
cis-1,2-Dichloroethene	ND		8.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
cis-1,3-Dichloropropene	ND		8.9	1.3	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Cyclohexane	ND		8.9	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Dichlorodifluoromethane	ND		8.9	0.73	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Ethylbenzene	ND		8.9	0.61	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
1,2-Dibromoethane	ND		8.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Isopropylbenzene	ND		8.9	1.3	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Methyl acetate	ND		44	5.4	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Methyl tert-butyl ether	ND		8.9	0.87	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Methylcyclohexane	ND		8.9	1.3	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Methylene Chloride	ND		8.9	4.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Styrene	ND		8.9	0.44	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Tetrachloroethene	ND		8.9	1.2	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Toluene	ND		8.9	0.67	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
trans-1,2-Dichloroethene	ND		8.9	0.92	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
trans-1,3-Dichloropropene	ND		8.9	3.9	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Trichloroethene	ND		8.9	2.0	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Trichlorofluoromethane	ND		8.9	0.84	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Vinyl chloride	ND		8.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1
Xylenes, Total	ND		18	1.5	ug/Kg	☼	04/06/21 09:16	04/06/21 17:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-22 3-4FT
Date Collected: 04/05/21 11:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-6
Matrix: Solid
Percent Solids: 85.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		71 - 125	04/06/21 09:16	04/06/21 17:57	1
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	04/06/21 09:16	04/06/21 17:57	1
4-Bromofluorobenzene (Surr)	102		72 - 126	04/06/21 09:16	04/06/21 17:57	1
Dibromofluoromethane (Surr)	100		60 - 140	04/06/21 09:16	04/06/21 17:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-23 9-11FT
Date Collected: 04/05/21 12:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-7
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,2-Dichlorobenzene	ND		4.9	0.39	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Acetone	**5.1**	**J**	25	4.2	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Benzene	ND		4.9	0.24	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Bromoform	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Carbon disulfide	ND		4.9	2.5	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Chlorobenzene	ND		4.9	0.65	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Chloroform	ND		4.9	0.31	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Chloromethane	ND		4.9	0.30	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Cyclohexane	ND		4.9	0.69	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Isopropylbenzene	ND		4.9	0.75	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Methyl acetate	ND		25	3.0	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Methyl tert-butyl ether	ND		4.9	0.49	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Methylene Chloride	ND		4.9	2.3	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Styrene	ND		4.9	0.25	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Toluene	ND		4.9	0.37	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Trichloroethene	ND		4.9	1.1	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Trichlorofluoromethane	ND		4.9	0.47	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Vinyl chloride	ND		4.9	0.60	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1
Xylenes, Total	ND		9.9	0.83	ug/Kg	☼	04/06/21 09:16	04/06/21 18:22	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-23 9-11FT
Date Collected: 04/05/21 12:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-7
Matrix: Solid
Percent Solids: 85.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*71 - 125*	*04/06/21 09:16*	*04/06/21 18:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*04/06/21 09:16*	*04/06/21 18:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*04/06/21 09:16*	*04/06/21 18:22*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*04/06/21 09:16*	*04/06/21 18:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
3-Nitroaniline	ND		380	55	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Acenaphthylene	ND		200	26	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Acetophenone	ND		200	27	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Anthracene	ND		200	49	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Atrazine	ND		200	68	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Caprolactam	ND		200	59	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Carbazole	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Chrysene	ND		200	44	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1

Client Sample ID: SB-23 9-11FT
Lab Sample ID: 480-182831-7
Date Collected: 04/05/21 12:00
Matrix: Solid
Date Received: 04/05/21 13:00
Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Dibenzofuran	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Fluoranthene	ND		200	21	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Fluorene	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Isophorone	ND		200	42	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Naphthalene	ND		200	26	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Phenanthrene	ND		200	29	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Phenol	ND		200	30	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1
Pyrene	ND		200	23	ug/Kg	☼	04/12/21 07:44	04/13/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*89*		*53 - 120*	*04/12/21 07:44*	*04/13/21 17:34*	*1*
Phenol-d5 (Surr)	*75*		*54 - 120*	*04/12/21 07:44*	*04/13/21 17:34*	*1*
p-Terphenyl-d14 (Surr)	*104*		*79 - 130*	*04/12/21 07:44*	*04/13/21 17:34*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*54 - 120*	*04/12/21 07:44*	*04/13/21 17:34*	*1*
2-Fluorobiphenyl	*105*		*60 - 120*	*04/12/21 07:44*	*04/13/21 17:34*	*1*
2-Fluorophenol (Surr)	*80*		*52 - 120*	*04/12/21 07:44*	*04/13/21 17:34*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.38	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
4,4'-DDE	ND		1.9	0.41	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
alpha-BHC	ND		1.9	0.35	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
cis-Chlordane	ND		1.9	0.96	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
beta-BHC	ND		1.9	0.35	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Endosulfan II	ND		1.9	0.35	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Endrin	ND		1.9	0.38	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1

Client Sample ID: SB-23 9-11FT
Date Collected: 04/05/21 12:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-7
Matrix: Solid
Percent Solids: 85.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.42	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Heptachlor epoxide	ND		1.9	0.50	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1
Toxaphene	ND		19	11	ug/Kg	☼	04/09/21 07:16	04/13/21 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*45 - 120*	*04/09/21 07:16*	*04/13/21 11:35*	*1*
DCB Decachlorobiphenyl	*69*		*45 - 120*	*04/09/21 07:16*	*04/13/21 11:35*	*1*
Tetrachloro-m-xylene	*66*		*30 - 124*	*04/09/21 07:16*	*04/13/21 11:35*	*1*
Tetrachloro-m-xylene	*49*		*30 - 124*	*04/09/21 07:16*	*04/13/21 11:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.044	mg/Kg	☼	04/07/21 10:34	04/07/21 22:08	1
PCB-1221	ND		0.22	0.044	mg/Kg	☼	04/07/21 10:34	04/07/21 22:08	1
PCB-1232	ND		0.22	0.044	mg/Kg	☼	04/07/21 10:34	04/07/21 22:08	1
PCB-1242	ND		0.22	0.044	mg/Kg	☼	04/07/21 10:34	04/07/21 22:08	1
PCB-1248	ND		0.22	0.044	mg/Kg	☼	04/07/21 10:34	04/07/21 22:08	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	04/07/21 10:34	04/07/21 22:08	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	04/07/21 10:34	04/07/21 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*127*		*60 - 154*	*04/07/21 10:34*	*04/07/21 22:08*	*1*
Tetrachloro-m-xylene	*128*		*60 - 154*	*04/07/21 10:34*	*04/07/21 22:08*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*04/07/21 10:34*	*04/07/21 22:08*	*1*
DCB Decachlorobiphenyl	*144*		*65 - 174*	*04/07/21 10:34*	*04/07/21 22:08*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.2	ug/Kg	☼	04/07/21 10:26	04/09/21 19:24	1
Silvex (2,4,5-TP)	ND		19	7.0	ug/Kg	☼	04/07/21 10:26	04/09/21 19:24	1
2,4-D	ND		19	12	ug/Kg	☼	04/07/21 10:26	04/09/21 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*65*		*28 - 129*	*04/07/21 10:26*	*04/09/21 19:24*	*1*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*04/07/21 10:26*	*04/09/21 19:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10900**		11.7	5.2	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Antimony	ND		17.6	0.47	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Arsenic	**5.3**		2.3	0.47	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Barium	**87.2**		0.59	0.13	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Beryllium	**0.56**		0.23	0.033	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Cadmium	**0.41**		0.23	0.035	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Calcium	**82300**		58.7	3.9	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Chromium	**19.6**		0.59	0.23	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Cobalt	**7.6**		0.59	0.059	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Copper	**19.4**		1.2	0.25	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Iron	**16600**		11.7	4.1	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Lead	**25.2**		1.2	0.28	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-23 9-11FT
Date Collected: 04/05/21 12:00
Date Received: 04/05/21 13:00

Lab Sample ID: 480-182831-7
Matrix: Solid
Percent Solids: 85.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	4580		23.5	1.1	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Manganese	599	B	0.23	0.038	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Nickel	24.0		5.9	0.27	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Potassium	2220		35.2	23.5	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Selenium	ND		4.7	0.47	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Silver	ND		0.70	0.23	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Sodium	190		164	15.3	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Thallium	ND		7.0	0.35	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Vanadium	22.3		0.59	0.13	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1
Zinc	85.1		2.3	0.75	mg/Kg	☼	04/06/21 16:20	04/07/21 14:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.022	0.0089	mg/Kg	☼	04/07/21 14:20	04/07/21 18:10	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-182831-1	SB-17 8-9FT	101	105	97	98
480-182831-2	SB-18 4-5FT	97	107	105	95
480-182831-3	SB-19 6-7FT	97	110	104	102
480-182831-4	SB-20 7-8FT	103	104	96	100
480-182831-5	SB-21 4-6FT	94	109	103	98
480-182831-6	SB-22 3-4FT	96	111	102	100
480-182831-7	SB-23 9-11FT	96	107	102	99
LCS 480-575187/1-A	Lab Control Sample	94	101	105	93
MB 480-575187/2-A	Method Blank	96	105	103	99

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(53-120)	(54-120)	(79-130)	(54-120)	(60-120)	(52-120)
480-182831-7	SB-23 9-11FT	89	75	104	94	105	80
LCS 480-575932/2-A	Lab Control Sample	91	76	103	99	95	81
MB 480-575932/1-A	Method Blank	85	69	94	81	80	72

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-182831-7	SB-23 9-11FT	86	69	66	49
LCS 480-575709/2-A	Lab Control Sample	86	72	73	51
MB 480-575709/1-A	Method Blank	84	77	74	48

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182831-1
Project/Site: Benchmark - 3077 Union Rd

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-182831-7	SB-23 9-11FT	128	127	144	133
LCS 480-575387/2-A	Lab Control Sample	138	133	169	155
MB 480-575387/1-A	Method Blank	113	110	136	125

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-182831-7	SB-23 9-11FT	65	69
LCS 480-575378/2-A	Lab Control Sample	79	95
MB 480-575378/1-A	Method Blank	68	58

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 480-575187/2-A
Matrix: Solid
Analysis Batch: 575138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
2-Hexanone	ND		25	2.5	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Acetone	ND		25	4.2	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Benzene	ND		5.0	0.25	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Bromoform	ND		5.0	2.5	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Chloroform	ND		5.0	0.31	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Methyl acetate	ND		25	3.0	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Styrene	ND		5.0	0.25	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Toluene	ND		5.0	0.38	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/06/21 09:16	04/06/21 10:39	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/06/21 09:16	04/06/21 10:39	1

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

Lab Sample ID: MB 480-575187/2-A
Matrix: Solid
Analysis Batch: 575138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575187

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*71 - 125*	*04/06/21 09:16*	*04/06/21 10:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*04/06/21 09:16*	*04/06/21 10:39*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*04/06/21 09:16*	*04/06/21 10:39*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*04/06/21 09:16*	*04/06/21 10:39*	*1*

Lab Sample ID: LCS 480-575187/1-A
Matrix: Solid
Analysis Batch: 575138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.1		ug/Kg		96	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	80 - 120
1,1,2-Trichloroethane	50.0	46.7		ug/Kg		93	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.6		ug/Kg		83	60 - 140
1,1-Dichloroethane	50.0	49.0		ug/Kg		98	73 - 126
1,1-Dichloroethene	50.0	45.0		ug/Kg		90	59 - 125
1,2,4-Trichlorobenzene	50.0	49.0		ug/Kg		98	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.8		ug/Kg		94	63 - 124
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	50.4		ug/Kg		101	77 - 122
1,2-Dichloropropane	50.0	51.4		ug/Kg		103	75 - 124
1,3-Dichlorobenzene	50.0	47.4		ug/Kg		95	74 - 120
1,4-Dichlorobenzene	50.0	47.1		ug/Kg		94	73 - 120
2-Butanone (MEK)	250	251		ug/Kg		100	70 - 134
2-Hexanone	250	240		ug/Kg		96	59 - 130
4-Methyl-2-pentanone (MIBK)	250	221		ug/Kg		88	65 - 133
Acetone	250	257		ug/Kg		103	61 - 137
Benzene	50.0	50.0		ug/Kg		100	79 - 127
Bromodichloromethane	50.0	51.4		ug/Kg		103	80 - 122
Bromoform	50.0	50.4		ug/Kg		101	68 - 126
Bromomethane	50.0	46.6		ug/Kg		93	37 - 149
Carbon disulfide	50.0	47.0		ug/Kg		94	64 - 131
Carbon tetrachloride	50.0	46.5		ug/Kg		93	75 - 135
Chlorobenzene	50.0	44.7		ug/Kg		89	76 - 124
Dibromochloromethane	50.0	46.2		ug/Kg		92	76 - 125
Chloroethane	50.0	46.4		ug/Kg		93	69 - 135
Chloroform	50.0	48.1		ug/Kg		96	80 - 120
Chloromethane	50.0	43.3		ug/Kg		87	63 - 127
cis-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	81 - 120
cis-1,3-Dichloropropene	50.0	52.9		ug/Kg		106	80 - 120
Cyclohexane	50.0	45.2		ug/Kg		90	65 - 120
Dichlorodifluoromethane	50.0	48.8		ug/Kg		98	57 - 142
Ethylbenzene	50.0	46.9		ug/Kg		94	80 - 120
1,2-Dibromoethane	50.0	44.5		ug/Kg		89	78 - 120
Isopropylbenzene	50.0	46.5		ug/Kg		93	72 - 120
Methyl acetate	100	91.7		ug/Kg		92	55 - 136
Methyl tert-butyl ether	50.0	49.7		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	46.6		ug/Kg		93	60 - 140

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

Lab Sample ID: LCS 480-575187/1-A
Matrix: Solid
Analysis Batch: 575138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	46.4		ug/Kg		93	61 - 127
Styrene	50.0	46.5		ug/Kg		93	80 - 120
Tetrachloroethene	50.0	47.0		ug/Kg		94	74 - 122
Toluene	50.0	46.4		ug/Kg		93	74 - 128
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	78 - 126
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	73 - 123
Trichloroethene	50.0	49.9		ug/Kg		100	77 - 129
Trichlorofluoromethane	50.0	45.6		ug/Kg		91	65 - 146
Vinyl chloride	50.0	44.2		ug/Kg		88	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*105*		*72 - 126*
Dibromofluoromethane (Surr)	*93*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-575932/1-A
Matrix: Solid
Analysis Batch: 576106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2-Chloronaphthalene	ND		170	28	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2-Chlorophenol	ND		330	31	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2-Methylphenol	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2-Methylnaphthalene	ND		170	34	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2-Nitroaniline	ND		330	25	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
2-Nitrophenol	ND		170	48	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
3-Nitroaniline	ND		330	47	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4-Chloroaniline	ND		170	42	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4-Methylphenol	ND		330	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4-Nitroaniline	ND		330	89	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
4-Nitrophenol	ND		330	120	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Acenaphthene	ND		170	25	ug/Kg		04/12/21 07:44	04/13/21 11:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-575932/1-A
Matrix: Solid
Analysis Batch: 576106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		170	22	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Acetophenone	ND		170	23	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Anthracene	ND		170	42	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Atrazine	ND		170	59	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Benzaldehyde	ND		170	130	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Benzo[a]pyrene	ND		170	25	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Caprolactam	ND		170	51	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Carbazole	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Chrysene	ND		170	38	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Dibenzofuran	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Diethyl phthalate	ND		170	22	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Dimethyl phthalate	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Fluoranthene	ND		170	18	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Fluorene	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Hexachlorobenzene	ND		170	23	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Hexachlorobutadiene	ND		170	25	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Hexachloroethane	ND		170	22	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Isophorone	ND		170	36	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Naphthalene	ND		170	22	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Nitrobenzene	ND		170	19	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Pentachlorophenol	ND		330	170	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Phenanthrene	ND		170	25	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Phenol	ND		170	26	ug/Kg		04/12/21 07:44	04/13/21 11:51	1
Pyrene	ND		170	20	ug/Kg		04/12/21 07:44	04/13/21 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*53 - 120*	*04/12/21 07:44*	*04/13/21 11:51*	*1*
Phenol-d5 (Surr)	*69*		*54 - 120*	*04/12/21 07:44*	*04/13/21 11:51*	*1*
p-Terphenyl-d14 (Surr)	*94*		*79 - 130*	*04/12/21 07:44*	*04/13/21 11:51*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*54 - 120*	*04/12/21 07:44*	*04/13/21 11:51*	*1*
2-Fluorobiphenyl	*80*		*60 - 120*	*04/12/21 07:44*	*04/13/21 11:51*	*1*
2-Fluorophenol (Surr)	*72*		*52 - 120*	*04/12/21 07:44*	*04/13/21 11:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-575932/2-A
Matrix: Solid
Analysis Batch: 576106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1640	1450		ug/Kg		89	59 - 120
bis (2-chloroisopropyl) ether	1640	1090		ug/Kg		67	44 - 120
2,4,5-Trichlorophenol	1640	1580		ug/Kg		96	59 - 126
2,4,6-Trichlorophenol	1640	1610		ug/Kg		98	59 - 123
2,4-Dichlorophenol	1640	1480		ug/Kg		90	61 - 120
2,4-Dimethylphenol	1640	1650		ug/Kg		100	59 - 120
2,4-Dinitrophenol	3280	3540		ug/Kg		108	41 - 146
2,4-Dinitrotoluene	1640	1650		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1640	1620		ug/Kg		98	66 - 120
2-Chloronaphthalene	1640	1470		ug/Kg		89	57 - 120
2-Chlorophenol	1640	1290		ug/Kg		78	53 - 120
2-Methylphenol	1640	1480		ug/Kg		90	54 - 120
2-Methylnaphthalene	1640	1400		ug/Kg		85	59 - 120
2-Nitroaniline	1640	1630		ug/Kg		99	61 - 120
2-Nitrophenol	1640	1500		ug/Kg		91	56 - 120
3,3'-Dichlorobenzidine	3280	3110		ug/Kg		95	54 - 120
3-Nitroaniline	1640	1260		ug/Kg		77	48 - 120
4,6-Dinitro-2-methylphenol	3280	3980		ug/Kg		121	49 - 122
4-Bromophenyl phenyl ether	1640	1640		ug/Kg		100	58 - 120
4-Chloro-3-methylphenol	1640	1760		ug/Kg		107	61 - 120
4-Chloroaniline	1640	1210		ug/Kg		74	38 - 120
4-Chlorophenyl phenyl ether	1640	1610		ug/Kg		98	63 - 124
4-Methylphenol	1640	1460		ug/Kg		89	55 - 120
4-Nitroaniline	1640	1450		ug/Kg		89	56 - 120
4-Nitrophenol	3280	4140		ug/Kg		126	43 - 147
Acenaphthene	1640	1460		ug/Kg		89	62 - 120
Acenaphthylene	1640	1530		ug/Kg		93	58 - 121
Acetophenone	1640	1560		ug/Kg		95	54 - 120
Anthracene	1640	1600		ug/Kg		97	62 - 120
Atrazine	3280	3180		ug/Kg		97	60 - 127
Benzaldehyde	3280	2560		ug/Kg		78	10 - 150
Benzo[a]anthracene	1640	1650		ug/Kg		100	65 - 120
Benzo[a]pyrene	1640	1830		ug/Kg		112	64 - 120
Benzo[b]fluoranthene	1640	1680		ug/Kg		102	64 - 120
Benzo[g,h,i]perylene	1640	1890		ug/Kg		115	45 - 145
Benzo[k]fluoranthene	1640	1550		ug/Kg		94	65 - 120
Bis(2-chloroethoxy)methane	1640	1400		ug/Kg		85	55 - 120
Bis(2-chloroethyl)ether	1640	1170		ug/Kg		71	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1930		ug/Kg		118	61 - 133
Butyl benzyl phthalate	1640	1910		ug/Kg		116	61 - 129
Caprolactam	3280	2720		ug/Kg		83	47 - 120
Carbazole	1640	1660		ug/Kg		101	65 - 120
Chrysene	1640	1700		ug/Kg		104	64 - 120
Dibenz(a,h)anthracene	1640	1840		ug/Kg		112	54 - 132
Di-n-butyl phthalate	1640	1820		ug/Kg		111	58 - 130
Di-n-octyl phthalate	1640	1860		ug/Kg		113	57 - 133
Dibenzofuran	1640	1550		ug/Kg		95	63 - 120
Diethyl phthalate	1640	1760		ug/Kg		107	66 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-575932/2-A
Matrix: Solid
Analysis Batch: 576106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	1640	1690		ug/Kg		103	65 - 124
Fluoranthene	1640	1670		ug/Kg		102	62 - 120
Fluorene	1640	1520		ug/Kg		93	63 - 120
Hexachlorobenzene	1640	1710		ug/Kg		104	60 - 120
Hexachlorobutadiene	1640	1560		ug/Kg		95	45 - 120
Hexachlorocyclopentadiene	1640	1520		ug/Kg		92	47 - 120
Hexachloroethane	1640	1520		ug/Kg		93	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1850		ug/Kg		113	56 - 134
Isophorone	1640	1510		ug/Kg		92	56 - 120
N-Nitrosodi-n-propylamine	1640	1480		ug/Kg		90	52 - 120
N-Nitrosodiphenylamine	1640	1670		ug/Kg		102	51 - 128
Naphthalene	1640	1370		ug/Kg		84	55 - 120
Nitrobenzene	1640	1500		ug/Kg		91	54 - 120
Pentachlorophenol	3280	3300		ug/Kg		100	51 - 120
Phenanthrene	1640	1630		ug/Kg		99	60 - 120
Phenol	1640	1240		ug/Kg		75	53 - 120
Pyrene	1640	1790		ug/Kg		109	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*91*		*53 - 120*
Phenol-d5 (Surr)	*76*		*54 - 120*
p-Terphenyl-d14 (Surr)	*103*		*79 - 130*
2,4,6-Tribromophenol (Surr)	*99*		*54 - 120*
2-Fluorobiphenyl	*95*		*60 - 120*
2-Fluorophenol (Surr)	*81*		*52 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-575709/1-A
Matrix: Solid
Analysis Batch: 576072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Aldrin	ND		1.7	0.41	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
alpha-BHC	ND		1.7	0.30	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
cis-Chlordane	ND		1.7	0.82	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
beta-BHC	ND		1.7	0.30	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
delta-BHC	ND		1.7	0.31	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Dieldrin	ND		1.7	0.40	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Endosulfan I	ND		1.7	0.32	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Endosulfan II	ND		1.7	0.30	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Endrin	ND		1.7	0.33	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Endrin ketone	ND		1.7	0.41	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		04/09/21 07:16	04/13/21 09:57	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-575709/1-A
Matrix: Solid
Analysis Batch: 576072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		1.7	0.53	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Heptachlor	ND		1.7	0.36	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Methoxychlor	ND		1.7	0.34	ug/Kg		04/09/21 07:16	04/13/21 09:57	1
Toxaphene	ND		17	9.6	ug/Kg		04/09/21 07:16	04/13/21 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*45 - 120*	*04/09/21 07:16*	*04/13/21 09:57*	*1*
DCB Decachlorobiphenyl	*77*		*45 - 120*	*04/09/21 07:16*	*04/13/21 09:57*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*04/09/21 07:16*	*04/13/21 09:57*	*1*
Tetrachloro-m-xylene	*48*		*30 - 124*	*04/09/21 07:16*	*04/13/21 09:57*	*1*

Lab Sample ID: LCS 480-575709/2-A
Matrix: Solid
Analysis Batch: 576072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.5	14.5		ug/Kg		88	56 - 120
4,4'-DDE	16.5	11.1		ug/Kg		67	44 - 120
4,4'-DDT	16.5	14.2		ug/Kg		86	38 - 120
Aldrin	16.5	10.8		ug/Kg		65	38 - 120
alpha-BHC	16.5	10.2		ug/Kg		62	39 - 120
cis-Chlordane	16.5	11.9		ug/Kg		72	47 - 120
beta-BHC	16.5	13.3		ug/Kg		80	40 - 120
delta-BHC	16.5	12.8		ug/Kg		77	45 - 120
Dieldrin	16.5	14.0		ug/Kg		84	58 - 120
Endosulfan I	16.5	13.4		ug/Kg		81	49 - 120
Endosulfan II	16.5	14.9		ug/Kg		90	55 - 120
Endosulfan sulfate	16.5	14.5		ug/Kg		88	49 - 124
Endrin	16.5	14.8		ug/Kg		89	58 - 120
Endrin aldehyde	16.5	12.6		ug/Kg		76	37 - 121
Endrin ketone	16.5	14.6		ug/Kg		88	46 - 123
gamma-BHC (Lindane)	16.5	10.8		ug/Kg		65	50 - 120
trans-Chlordane	16.5	13.1		ug/Kg		79	48 - 120
Heptachlor	16.5	11.9		ug/Kg		72	50 - 120
Heptachlor epoxide	16.5	13.7		ug/Kg		83	50 - 120
Methoxychlor	16.5	15.5		ug/Kg		94	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*45 - 120*
DCB Decachlorobiphenyl	*72*		*45 - 120*
Tetrachloro-m-xylene	*73*		*30 - 124*
Tetrachloro-m-xylene	*51*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-575387/1-A
Matrix: Solid
Analysis Batch: 575427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.040	mg/Kg		04/07/21 10:34	04/07/21 18:26	1
PCB-1221	ND		0.20	0.040	mg/Kg		04/07/21 10:34	04/07/21 18:26	1
PCB-1232	ND		0.20	0.040	mg/Kg		04/07/21 10:34	04/07/21 18:26	1
PCB-1242	ND		0.20	0.040	mg/Kg		04/07/21 10:34	04/07/21 18:26	1
PCB-1248	ND		0.20	0.040	mg/Kg		04/07/21 10:34	04/07/21 18:26	1
PCB-1254	ND		0.20	0.095	mg/Kg		04/07/21 10:34	04/07/21 18:26	1
PCB-1260	ND		0.20	0.095	mg/Kg		04/07/21 10:34	04/07/21 18:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*04/07/21 10:34*	*04/07/21 18:26*	*1*
Tetrachloro-m-xylene	*113*		*60 - 154*	*04/07/21 10:34*	*04/07/21 18:26*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*04/07/21 10:34*	*04/07/21 18:26*	*1*
DCB Decachlorobiphenyl	*136*		*65 - 174*	*04/07/21 10:34*	*04/07/21 18:26*	*1*

Lab Sample ID: LCS 480-575387/2-A
Matrix: Solid
Analysis Batch: 575427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.08	2.64		mg/Kg		127	51 - 185
PCB-1260	2.08	3.24		mg/Kg		156	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*133*		*60 - 154*
Tetrachloro-m-xylene	*138*		*60 - 154*
DCB Decachlorobiphenyl	*155*		*65 - 174*
DCB Decachlorobiphenyl	*169*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-575378/1-A
Matrix: Solid
Analysis Batch: 575766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		04/07/21 10:26	04/09/21 13:26	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		04/07/21 10:26	04/09/21 13:26	1
2,4-D	ND		17	10	ug/Kg		04/07/21 10:26	04/09/21 13:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*04/07/21 10:26*	*04/09/21 13:26*	*1*
2,4-Dichlorophenylacetic acid	*58*		*28 - 129*	*04/07/21 10:26*	*04/09/21 13:26*	*1*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-575378/2-A
Matrix: Solid
Analysis Batch: 575766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			66.3	55.4		ug/Kg		84	41 - 120		
Silvex (2,4,5-TP)			66.3	55.1		ug/Kg		83	39 - 125		
2,4-D			66.3	47.2		ug/Kg		71	40 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*79*		*28 - 129*
2,4-Dichlorophenylacetic acid	*95*		*28 - 129*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-575270/1-A
Matrix: Solid
Analysis Batch: 575524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	4.4	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Antimony	ND		14.9	0.40	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Arsenic	ND		2.0	0.40	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Barium	ND		0.50	0.11	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Beryllium	ND		0.20	0.028	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Cadmium	ND		0.20	0.030	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Calcium	ND		49.8	3.3	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Chromium	ND		0.50	0.20	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Cobalt	ND		0.50	0.050	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Copper	ND		1.0	0.21	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Iron	ND		10	3.5	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Lead	ND		1.0	0.24	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Magnesium	ND		19.9	0.92	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Manganese	0.0886	J	0.20	0.032	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Nickel	ND		5.0	0.23	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Potassium	ND		29.9	19.9	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Selenium	ND		4.0	0.40	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Silver	ND		0.60	0.20	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Sodium	ND		139	12.9	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Thallium	ND		6.0	0.30	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Vanadium	ND		0.50	0.11	mg/Kg		04/06/21 16:20	04/07/21 12:34	1
Zinc	ND		2.0	0.64	mg/Kg		04/06/21 16:20	04/07/21 12:34	1

Lab Sample ID: LCSSRM 480-575270/2-A
Matrix: Solid
Analysis Batch: 575524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575270

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			8190	9165		mg/Kg		111.9	50.1 - 150.2		
Antimony			110	79.04		mg/Kg		71.9	22.2 - 254.5		
Arsenic			162	142.5		mg/Kg		88.0	70.4 - 130.2		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-575270/2-A
Matrix: Solid
Analysis Batch: 575524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575270

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	138	130.8		mg/Kg		94.8	74.6 - 124.6
Beryllium	157	143.4		mg/Kg		91.3	75.2 - 125.5
Cadmium	135	121.8		mg/Kg		90.2	74.8 - 124.4
Calcium	4790	4246		mg/Kg		88.6	72.7 - 127.3
Chromium	117	108.5		mg/Kg		92.7	70.1 - 129.9
Cobalt	92.6	91.60		mg/Kg		98.9	75.1 - 125.3
Copper	143	125.6		mg/Kg		87.8	74.8 - 124.5
Iron	15100	13610		mg/Kg		90.1	37.2 - 162.9
Lead	77.6	76.23		mg/Kg		98.2	68.8 - 131.4
Magnesium	2320	2176		mg/Kg		93.8	62.1 - 137.9
Manganese	319	299.5		mg/Kg		93.9	74.9 - 125.1
Nickel	79.9	80.55		mg/Kg		100.8	70.0 - 130.2
Potassium	2050	2012		mg/Kg		98.2	59.5 - 141.0
Selenium	172	153.6		mg/Kg		89.3	68.0 - 132.6
Silver	24.7	22.43		mg/Kg		90.8	67.2 - 133.2
Sodium	137	148.1		mg/Kg		108.1	35.8 - 164.2
Thallium	88.0	90.10		mg/Kg		102.4	66.0 - 134.1
Vanadium	99.9	96.46		mg/Kg		96.6	67.4 - 132.1
Zinc	312	283.2		mg/Kg		90.8	69.9 - 129.8

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-575431/1-A
Matrix: Solid
Analysis Batch: 575474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0081	mg/Kg		04/07/21 14:20	04/07/21 17:39	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-575431/2-A ^10
Matrix: Solid
Analysis Batch: 575474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575431

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	23.92		mg/Kg		87.9	59.9 - 140.1		

GC/MS VOA

Analysis Batch: 575138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-1	SB-17 8-9FT	Total/NA	Solid	8260C	575187
480-182831-2	SB-18 4-5FT	Total/NA	Solid	8260C	575187
480-182831-3	SB-19 6-7FT	Total/NA	Solid	8260C	575187
480-182831-4	SB-20 7-8FT	Total/NA	Solid	8260C	575187
480-182831-5	SB-21 4-6FT	Total/NA	Solid	8260C	575187
480-182831-6	SB-22 3-4FT	Total/NA	Solid	8260C	575187
480-182831-7	SB-23 9-11FT	Total/NA	Solid	8260C	575187
MB 480-575187/2-A	Method Blank	Total/NA	Solid	8260C	575187
LCS 480-575187/1-A	Lab Control Sample	Total/NA	Solid	8260C	575187

Prep Batch: 575187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-1	SB-17 8-9FT	Total/NA	Solid	5035A_L	
480-182831-2	SB-18 4-5FT	Total/NA	Solid	5035A_L	
480-182831-3	SB-19 6-7FT	Total/NA	Solid	5035A_L	
480-182831-4	SB-20 7-8FT	Total/NA	Solid	5035A_L	
480-182831-5	SB-21 4-6FT	Total/NA	Solid	5035A_L	
480-182831-6	SB-22 3-4FT	Total/NA	Solid	5035A_L	
480-182831-7	SB-23 9-11FT	Total/NA	Solid	5035A_L	
MB 480-575187/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-575187/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 575932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	3550C	
MB 480-575932/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-575932/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 576106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	8270D	575932
MB 480-575932/1-A	Method Blank	Total/NA	Solid	8270D	575932
LCS 480-575932/2-A	Lab Control Sample	Total/NA	Solid	8270D	575932

GC Semi VOA

Prep Batch: 575378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	8151A	
MB 480-575378/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-575378/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 575387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	3550C	
MB 480-575387/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-575387/2-A	Lab Control Sample	Total/NA	Solid	3550C	

GC Semi VOA

Analysis Batch: 575427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	8082A	575387
MB 480-575387/1-A	Method Blank	Total/NA	Solid	8082A	575387
LCS 480-575387/2-A	Lab Control Sample	Total/NA	Solid	8082A	575387

Prep Batch: 575709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	3550C	
MB 480-575709/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-575709/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 575766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	8151A	575378
MB 480-575378/1-A	Method Blank	Total/NA	Solid	8151A	575378
LCS 480-575378/2-A	Lab Control Sample	Total/NA	Solid	8151A	575378

Analysis Batch: 576072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	8081B	575709
MB 480-575709/1-A	Method Blank	Total/NA	Solid	8081B	575709
LCS 480-575709/2-A	Lab Control Sample	Total/NA	Solid	8081B	575709

Metals

Prep Batch: 575270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	3050B	
MB 480-575270/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-575270/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 575431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	7471B	
MB 480-575431/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-575431/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 575474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	7471B	575431
MB 480-575431/1-A	Method Blank	Total/NA	Solid	7471B	575431
LCSSRM 480-575431/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	575431

Analysis Batch: 575524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-7	SB-23 9-11FT	Total/NA	Solid	6010C	575270
MB 480-575270/1-A	Method Blank	Total/NA	Solid	6010C	575270
LCSSRM 480-575270/2-A	Lab Control Sample	Total/NA	Solid	6010C	575270

General Chemistry

Analysis Batch: 575220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-1	SB-17 8-9FT	Total/NA	Solid	Moisture	
480-182831-2	SB-18 4-5FT	Total/NA	Solid	Moisture	
480-182831-3	SB-19 6-7FT	Total/NA	Solid	Moisture	
480-182831-4	SB-20 7-8FT	Total/NA	Solid	Moisture	
480-182831-7	SB-23 9-11FT	Total/NA	Solid	Moisture	

Analysis Batch: 575593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182831-5	SB-21 4-6FT	Total/NA	Solid	Moisture	
480-182831-6	SB-22 3-4FT	Total/NA	Solid	Moisture	

Client Sample ID: SB-17 8-9FT — **Lab Sample ID: 480-182831-1**
Date Collected: 04/05/21 09:30 — **Matrix: Solid**
Date Received: 04/05/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	575220	04/06/21 11:37	WJD	TAL BUF

Client Sample ID: SB-17 8-9FT — **Lab Sample ID: 480-182831-1**
Date Collected: 04/05/21 09:30 — **Matrix: Solid**
Date Received: 04/05/21 13:00 — **Percent Solids: 82.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			575187	04/06/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	575138	04/06/21 15:57	WJD	TAL BUF

Client Sample ID: SB-18 4-5FT — **Lab Sample ID: 480-182831-2**
Date Collected: 04/05/21 11:45 — **Matrix: Solid**
Date Received: 04/05/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	575220	04/06/21 11:37	WJD	TAL BUF

Client Sample ID: SB-18 4-5FT — **Lab Sample ID: 480-182831-2**
Date Collected: 04/05/21 11:45 — **Matrix: Solid**
Date Received: 04/05/21 13:00 — **Percent Solids: 75.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			575187	04/06/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	575138	04/06/21 16:21	WJD	TAL BUF

Client Sample ID: SB-19 6-7FT — **Lab Sample ID: 480-182831-3**
Date Collected: 04/05/21 10:00 — **Matrix: Solid**
Date Received: 04/05/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	575220	04/06/21 11:37	WJD	TAL BUF

Client Sample ID: SB-19 6-7FT — **Lab Sample ID: 480-182831-3**
Date Collected: 04/05/21 10:00 — **Matrix: Solid**
Date Received: 04/05/21 13:00 — **Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			575187	04/06/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	575138	04/06/21 16:45	WJD	TAL BUF

Client Sample ID: SB-20 7-8FT — **Lab Sample ID: 480-182831-4**
Date Collected: 04/05/21 11:30 — **Matrix: Solid**
Date Received: 04/05/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	575220	04/06/21 11:37	WJD	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Client Sample ID: SB-20 7-8FT
Lab Sample ID: 480-182831-4
Date Collected: 04/05/21 11:30
Matrix: Solid
Date Received: 04/05/21 13:00
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			575187	04/06/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	575138	04/06/21 17:09	WJD	TAL BUF

Client Sample ID: SB-21 4-6FT
Lab Sample ID: 480-182831-5
Date Collected: 04/05/21 10:30
Matrix: Solid
Date Received: 04/05/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	575593	04/08/21 11:00	WJD	TAL BUF

Client Sample ID: SB-21 4-6FT
Lab Sample ID: 480-182831-5
Date Collected: 04/05/21 10:30
Matrix: Solid
Date Received: 04/05/21 13:00
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			575187	04/06/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	575138	04/06/21 17:33	WJD	TAL BUF

Client Sample ID: SB-22 3-4FT
Lab Sample ID: 480-182831-6
Date Collected: 04/05/21 11:00
Matrix: Solid
Date Received: 04/05/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	575593	04/08/21 11:00	WJD	TAL BUF

Client Sample ID: SB-22 3-4FT
Lab Sample ID: 480-182831-6
Date Collected: 04/05/21 11:00
Matrix: Solid
Date Received: 04/05/21 13:00
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			575187	04/06/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	575138	04/06/21 17:57	WJD	TAL BUF

Client Sample ID: SB-23 9-11FT
Lab Sample ID: 480-182831-7
Date Collected: 04/05/21 12:00
Matrix: Solid
Date Received: 04/05/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	575220	04/06/21 11:37	WJD	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182831-1
Project/Site: Benchmark - 3077 Union Rd

Client Sample ID: SB-23 9-11FT
Lab Sample ID: 480-182831-7
Date Collected: 04/05/21 12:00
Matrix: Solid
Date Received: 04/05/21 13:00
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			575187	04/06/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	575138	04/06/21 18:22	WJD	TAL BUF
Total/NA	Prep	3550C			575932	04/12/21 07:44	VXF	TAL BUF
Total/NA	Analysis	8270D		1	576106	04/13/21 17:34	RJS	TAL BUF
Total/NA	Prep	3550C			575709	04/09/21 07:16	SMP	TAL BUF
Total/NA	Analysis	8081B		1	576072	04/13/21 11:35	JLS	TAL BUF
Total/NA	Prep	3550C			575387	04/07/21 10:34	VXF	TAL BUF
Total/NA	Analysis	8082A		1	575427	04/07/21 22:08	NC	TAL BUF
Total/NA	Prep	8151A			575378	04/07/21 10:26	VXF	TAL BUF
Total/NA	Analysis	8151A		1	575766	04/09/21 19:24	MAN	TAL BUF
Total/NA	Prep	3050B			575270	04/06/21 16:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	575524	04/07/21 14:21	LMH	TAL BUF
Total/NA	Prep	7471B			575431	04/07/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	575474	04/07/21 18:10	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182831-1
Project/Site: Benchmark - 3077 Union Rd

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182831-1	SB-17 8-9FT	Solid	04/05/21 09:30	04/05/21 13:00	
480-182831-2	SB-18 4-5FT	Solid	04/05/21 11:45	04/05/21 13:00	
480-182831-3	SB-19 6-7FT	Solid	04/05/21 10:00	04/05/21 13:00	
480-182831-4	SB-20 7-8FT	Solid	04/05/21 11:30	04/05/21 13:00	
480-182831-5	SB-21 4-6FT	Solid	04/05/21 10:30	04/05/21 13:00	
480-182831-6	SB-22 3-4FT	Solid	04/05/21 11:00	04/05/21 13:00	
480-182831-7	SB-23 9-11FT	Solid	04/05/21 12:00	04/05/21 13:00	

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

Chain of Custody Record

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Client Information	Sampler: Nick Sumai	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-156899-34590.2
Client Contact: Bryan Mayback	Phone: 716-713-3937	E-Mail: Brian		Page: Page 2 of 2
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike	Due Date Requested: Standard			Preservation Codes:
City: Lackawanna	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-713-3937	PO #: [redacted] T0105-017-010			
Email: bmayback@bm-tk.com	WO #:			
Project Name: 3077 Union Rd Benchmark [redacted]	Project #: 48023385			
Site: 3077 Union Rd	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list plus MTBE + CP-51	Dry Weight	Total Number of containers	Special Instructions/Note:
Preservation Code:					N	N				
SB-2 4-6Ft	4/5/21	10:30	G	Solid				X		Volume For Dry Weight
SB-22 3-4Ft	4/5/21	11:00	G	Solid				X		On Samples In
				Solid						Job #182831
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

480-182831 Chain of Custody

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Cat D, NYSRec Emrg	Special Instructions/QC Requirements: Volume For Dry Weight In Job #182831

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 4/7/21 15:30	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: BDS	Date/Time: 4/7/21 1530	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1

Ver: 11 01 2020

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-155500-34449.5
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 5 of 5
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days): Standard			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: T0105-017-010			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site: 3077 Union Rd	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	PFC_IDA - PFAS, Standard List (21 Analytes)	8082A - TCL PCBs - OLM04.2	8081B - TCL Pesticides - OLM04.2	8270D - TCL SVOA - OLM04.2	6010C, 7470A	8151A - Appendix II Herbicides	8270D_SIM_MS_ID - SIM List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	D	N	N		
SB-17 8-9 Ft	4/5/21	9:30	G	~~Water~~ Soil			X									
SB-18 4-5 Ft		11:~~45~~		~~Water~~ Soil			X									
SB-19 6-7 Ft		10:00		~~Water~~ Soil			X									
SB-20 7-8 Ft		11:30		~~Water~~ Soil			X									
SB-21 4-6 Ft		10:30		Water Soil			X									
SB-22 3-4 Ft		11:00		~~Water~~ Soil			X									
SB-23 9-11 Ft		12:00		~~Water~~ Soil			X		X	X	X	X	X			
				Water												
				Water												

480-182831 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/5/21 13:00			4/5/21 1300	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		4.6 #1 ICE

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-182831-1

Login Number: 182831

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Kolb, Chris M

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-198998-1
Client Project/Site: 3077 Union Rd Site - Orchard Park, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
6/28/2022 12:51:47 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-198998-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-198998-1

Comments
No additional comments.

Receipt
The samples were received on 6/14/2022 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to color and appearance: SS-4 (480-198998-4). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to color and appearance: SS-4 (480-198998-4). Because of this dilution and an elevated final volume at prep, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: SS-2 (480-198998-2), SS-3 (480-198998-3) and SS-4 (480-198998-4). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The following sample was diluted due to the presence of Total Calcium which interferes with Copper: SS-4 (480-198998-4). Elevated reporting limits (RLs) are provided.

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

LCMS
Method 537 (modified): 13C4 PFBA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: SS-4 (480-198998-4). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): d3-NMeFOSAA, d5-NEtFOSAA and M2-8:2 FTS Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for the following sample: SS-4 (480-198998-4). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with samples SS-1 (480-198998-1) and SS-3 (480-198998-3) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

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

Organic Prep
Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: SS-4 (480-198998-4). The reporting limits (RLs) are elevated proportionately.

Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: SS-1 (480-198998-1), SS-2 (480-198998-2), SS-3 (480-198998-3) and SS-4 (480-198998-4).

Job ID: 480-198998-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

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

Client Sample ID: SS-1
Lab Sample ID: 480-198998-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	45	J	210	33	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	41	J	210	22	ug/Kg	1	☼	8270D	Total/NA
Pyrene	33	J	210	25	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	1.2	J	2.0	0.43	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	1.4	J B	2.0	0.48	ug/Kg	1	☼	8081B	Total/NA
alpha-BHC	0.57	J	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	1.4	J B	2.0	0.52	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane)	0.45	J	2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
trans-Chlordane	1.3	J	2.0	0.65	ug/Kg	1	☼	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.11	J	0.25	0.068	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.19	J I	0.25	0.057	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.14	J	0.25	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.50		0.25	0.072	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.24	J	0.25	0.042	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.19	J	0.25	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.13	J	0.25	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.095	J	0.25	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.053	J	0.25	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		0.25	0.14	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.062	J	0.25	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	16300		12.7	5.6	mg/Kg	1	☼	6010C	Total/NA
Antimony	4.3	J	19.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.0		2.5	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	68.7		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.85		0.25	0.036	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.48		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	12200	B	63.6	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	45.1		0.64	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	11.6		0.64	0.064	mg/Kg	1	☼	6010C	Total/NA
Copper	39.4		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	39300	B	12.7	4.5	mg/Kg	1	☼	6010C	Total/NA
Lead	45.2		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4410		25.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	803	B	0.25	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	45.3		6.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	3220		38.2	25.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	69.5	J	178	16.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	36.2		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	139		2.5	0.81	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.069		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-2
Lab Sample ID: 480-198998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	27	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	230		210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	300		210	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	410		210	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	250		210	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	190	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	360		210	71	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-2 (Continued)
Lab Sample ID: 480-198998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbazole	26	J	210	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	280		210	47	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	64	J	210	37	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	430		210	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	210		210	26	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150	J	210	31	ug/Kg	1	☼	8270D	Total/NA
Pyrene	370		210	25	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDD	3.4	J	10	2.0	ug/Kg	5	☼	8081B	Total/NA
4,4'-DDE	2.9	J	10	2.2	ug/Kg	5	☼	8081B	Total/NA
4,4'-DDT	3.8	J B	10	2.4	ug/Kg	5	☼	8081B	Total/NA
Methoxychlor	3.0	J	10	2.1	ug/Kg	5	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.46	J	0.62	0.41	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.12	J	0.25	0.069	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.18	J	0.25	0.057	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.18	J	0.25	0.049	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.56		0.25	0.072	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.24	J	0.25	0.042	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.15	J	0.25	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.14	J	0.25	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.097	J	0.25	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.067	J	0.25	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.038	J	0.25	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		0.25	0.14	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.029	J	0.25	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	17800		12.2	5.4	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.7	J	18.3	0.49	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.9		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	79.2		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.92		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.62		0.24	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	17400	B	61.0	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	50.8		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.1		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	40.7		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	36400	B	12.2	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	56.6		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5150		24.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	1190	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	49.5		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	3510		36.6	24.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	85.7	J	171	15.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	49.5		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	316		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.085		0.026	0.0059	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-3
Lab Sample ID: 480-198998-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	34	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	250		200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	420		200	30	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-3 (Continued)
Lab Sample ID: 480-198998-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	570		200	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	360		200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	280		200	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	390		200	45	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	110	J	200	36	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	420		200	21	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	320		200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	400		200	24	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDT	3.4	J B	9.7	2.3	ug/Kg	5	☼	8081B	Total/NA
Methoxychlor	2.5	J	9.7	2.0	ug/Kg	5	☼	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.090	J	0.23	0.063	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.19	J I	0.23	0.052	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.11	J	0.23	0.044	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.31		0.23	0.066	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.20	J	0.23	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.16	J	0.23	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.14	J	0.23	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.074	J	0.23	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.059	J	0.23	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.043	J	0.23	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.5		0.23	0.13	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.72		0.23	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	13200		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	2.6	J	17.1	0.46	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.3		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	60.4		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.80		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.42		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	42100	B	56.9	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	67.9		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	12.0		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	62.1		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	38300	B	11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	46.7		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5950		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	1020	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	63.7		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2960		34.1	22.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	107	J	159	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	38.4		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	135		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.084		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-4
Lab Sample ID: 480-198998-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	3500	J	17000	1800	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2100	J	17000	2100	ug/Kg	10	☼	8270D	Total/NA
4,4'-DDT	28	J B	86	20	ug/Kg	50	☼	8081B	Total/NA
Perfluorononanoic acid (PFNA)	0.037	J	0.20	0.034	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-4 (Continued)

Lab Sample ID: 480-198998-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.064	J	0.20	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.079	J	0.20	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.13	J	0.20	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.066	J	0.20	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.062	J	0.20	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.27		0.20	0.11	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.066	J	0.20	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	3900		10.7	4.7	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.70	J	16.1	0.43	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.4		2.1	0.43	mg/Kg	1	☼	6010C	Total/NA
Barium	32.8		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.46		0.21	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.33		0.21	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	123000	B	107	7.1	mg/Kg	2	☼	6010C	Total/NA
Chromium	54.6		0.54	0.21	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.54	0.054	mg/Kg	1	☼	6010C	Total/NA
Copper	20.3		2.1	0.45	mg/Kg	2	☼	6010C	Total/NA
Iron	10700	B	10.7	3.8	mg/Kg	1	☼	6010C	Total/NA
Lead	149		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Magnesium	8380		21.5	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	416	B	0.21	0.034	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.5		5.4	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	921		32.2	21.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	159		150	14.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	13.2		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	259		2.1	0.69	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.0062	J	0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-1
Date Collected: 06/14/22 11:30
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-1
Matrix: Solid
Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	68	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2,4-Dinitrophenol	ND		2000	970	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2-Chlorophenol	ND		410	38	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2-Methylphenol	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4-Methylphenol	ND		410	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Acenaphthene	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Acenaphthylene	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Acetophenone	ND		210	28	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Anthracene	ND		210	52	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Atrazine	ND		210	73	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Benzaldehyde	ND		210	170	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Benzo[b]fluoranthene	**45**	**J**	210	33	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Biphenyl	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Caprolactam	ND		210	63	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Carbazole	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Chrysene	ND		210	47	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Dibenzofuran	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1

Client Sample ID: SS-1
Lab Sample ID: 480-198998-1
Date Collected: 06/14/22 11:30
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Fluoranthene	**41**	**J**	210	22	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Fluorene	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Hexachloroethane	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Isophorone	ND		210	44	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Naphthalene	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Nitrobenzene	ND		210	23	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Phenanthrene	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Phenol	ND		210	32	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1
Pyrene	**33**	**J**	210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*54 - 120*	*06/14/22 15:39*	*06/16/22 04:48*	*1*
2-Fluorobiphenyl	*83*		*60 - 120*	*06/14/22 15:39*	*06/16/22 04:48*	*1*
2-Fluorophenol	*69*		*52 - 120*	*06/14/22 15:39*	*06/16/22 04:48*	*1*
Nitrobenzene-d5	*77*		*53 - 120*	*06/14/22 15:39*	*06/16/22 04:48*	*1*
Phenol-d5	*74*		*54 - 120*	*06/14/22 15:39*	*06/16/22 04:48*	*1*
p-Terphenyl-d14	*93*		*79 - 130*	*06/14/22 15:39*	*06/16/22 04:48*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.40	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
4,4'-DDE	**1.2**	**J**	2.0	0.43	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
4,4'-DDT	**1.4**	**J B**	2.0	0.48	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Aldrin	ND		2.0	0.50	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
alpha-BHC	**0.57**	**J**	2.0	0.37	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
beta-BHC	ND		2.0	0.37	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
cis-Chlordane	ND		2.0	1.0	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
delta-BHC	ND		2.0	0.38	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Dieldrin	ND		2.0	0.49	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Endosulfan II	ND		2.0	0.37	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Endrin	ND		2.0	0.40	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Endrin aldehyde	**1.4**	**J B**	2.0	0.52	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Endrin ketone	ND		2.0	0.50	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
gamma-BHC (Lindane)	**0.45**	**J**	2.0	0.38	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Heptachlor	ND		2.0	0.44	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Heptachlor epoxide	ND		2.0	0.53	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Methoxychlor	ND		2.0	0.42	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
Toxaphene	ND		20	12	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1
trans-Chlordane	**1.3**	**J**	2.0	0.65	ug/Kg	☼	06/15/22 15:40	06/16/22 14:29	1

Client Sample ID: SS-1
Date Collected: 06/14/22 11:30
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-1
Matrix: Solid
Percent Solids: 80.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*45 - 120*	*06/15/22 15:40*	*06/16/22 14:29*	*1*
DCB Decachlorobiphenyl	*152*	*S1+*	*45 - 120*	*06/15/22 15:40*	*06/16/22 14:29*	*1*
Tetrachloro-m-xylene	*68*		*30 - 124*	*06/15/22 15:40*	*06/16/22 14:29*	*1*
Tetrachloro-m-xylene	*57*		*30 - 124*	*06/15/22 15:40*	*06/16/22 14:29*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	☼	06/14/22 15:43	06/15/22 22:09	1
PCB-1221	ND		0.30	0.059	mg/Kg	☼	06/14/22 15:43	06/15/22 22:09	1
PCB-1232	ND		0.30	0.059	mg/Kg	☼	06/14/22 15:43	06/15/22 22:09	1
PCB-1242	ND		0.30	0.059	mg/Kg	☼	06/14/22 15:43	06/15/22 22:09	1
PCB-1248	ND		0.30	0.059	mg/Kg	☼	06/14/22 15:43	06/15/22 22:09	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	06/14/22 15:43	06/15/22 22:09	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	06/14/22 15:43	06/15/22 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*60 - 154*	*06/14/22 15:43*	*06/15/22 22:09*	*1*
Tetrachloro-m-xylene	*73*		*60 - 154*	*06/14/22 15:43*	*06/15/22 22:09*	*1*
DCB Decachlorobiphenyl	*65*		*65 - 174*	*06/14/22 15:43*	*06/15/22 22:09*	*1*
DCB Decachlorobiphenyl	*69*		*65 - 174*	*06/14/22 15:43*	*06/15/22 22:09*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.6	ug/Kg	☼	06/22/22 09:44	06/27/22 15:28	1
2,4-D	ND		21	13	ug/Kg	☼	06/22/22 09:44	06/27/22 15:28	1
Silvex (2,4,5-TP)	ND		21	7.4	ug/Kg	☼	06/22/22 09:44	06/27/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*79*		*28 - 129*	*06/22/22 09:44*	*06/27/22 15:28*	*1*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*	*06/22/22 09:44*	*06/27/22 15:28*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.62	0.41	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluoropentanoic acid (PFPeA)	**0.11**	**J**	0.25	0.068	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorohexanoic acid (PFHxA)	**0.19**	**J I**	0.25	0.057	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluoroheptanoic acid (PFHpA)	**0.14**	**J**	0.25	0.048	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorooctanoic acid (PFOA)	**0.50**		0.25	0.072	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorononanoic acid (PFNA)	**0.24**	**J**	0.25	0.042	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorodecanoic acid (PFDA)	**0.19**	**J**	0.25	0.035	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluoroundecanoic acid (PFUnA)	**0.13**	**J**	0.25	0.033	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorododecanoic acid (PFDoA)	**0.095**	**J**	0.25	0.031	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorotridecanoic acid (PFTriA)	**0.053**	**J**	0.25	0.031	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.25	0.032	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.25	0.041	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.25	0.051	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.25	0.028	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorooctanesulfonic acid (PFOS)	**2.4**		0.25	0.14	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1

Client Sample ID: SS-1
Lab Sample ID: 480-198998-1
Date Collected: 06/14/22 11:30
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 80.1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	**0.062**	**J**	0.25	0.024	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.25	0.042	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.5	0.14	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.5	0.10	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.5	0.071	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.5	0.046	ug/Kg	☼	06/16/22 08:22	06/16/22 17:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*69*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C4 PFHpA	*89*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C4 PFOA	*82*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C4 PFOS	*65*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C5 PFNA	*77*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C4 PFBA	*102*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C2 PFHxA	*91*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C2 PFDA	*77*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C2 PFUnA	*81*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C2 PFDoA	*77*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C8 FOSA	*64*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C5 PFPeA	*95*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C2 PFTeDA	*84*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
d3-NMeFOSAA	*101*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
d5-NEtFOSAA	*112*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
M2-6:2 FTS	*79*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
M2-8:2 FTS	*92*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*
13C3 PFBS	*74*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16300**		12.7	5.6	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Antimony	**4.3**	**J**	19.1	0.51	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Arsenic	**7.0**		2.5	0.51	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Barium	**68.7**		0.64	0.14	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Beryllium	**0.85**		0.25	0.036	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Cadmium	**0.48**		0.25	0.038	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Calcium	**12200**	**B**	63.6	4.2	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Chromium	**45.1**		0.64	0.25	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Cobalt	**11.6**		0.64	0.064	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Copper	**39.4**		1.3	0.27	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Iron	**39300**	**B**	12.7	4.5	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Lead	**45.2**		1.3	0.31	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Magnesium	**4410**		25.4	1.2	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Manganese	**803**	**B**	0.25	0.041	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Nickel	**45.3**		6.4	0.29	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Potassium	**3220**		38.2	25.4	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Selenium	ND		5.1	0.51	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Silver	ND		0.76	0.25	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-1
Lab Sample ID: 480-198998-1
Date Collected: 06/14/22 11:30
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 80.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	69.5	J	178	16.5	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Thallium	ND		7.6	0.38	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Vanadium	36.2		0.64	0.14	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1
Zinc	139		2.5	0.81	mg/Kg	☼	06/15/22 11:09	06/16/22 17:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.025	0.0057	mg/Kg	☼	06/15/22 09:21	06/15/22 12:05	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-2
Date Collected: 06/14/22 11:45
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-2
Matrix: Solid
Percent Solids: 79.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	68	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2,4-Dinitrophenol	ND		2000	970	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2-Chlorophenol	ND		410	38	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2-Methylphenol	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4-Methylphenol	ND		410	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Acenaphthene	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Acenaphthylene	**27**	**J**	210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Acetophenone	ND		210	28	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Anthracene	ND		210	52	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Atrazine	ND		210	73	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Benzaldehyde	ND		210	170	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Benzo[a]anthracene	**230**		210	21	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Benzo[a]pyrene	**300**		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Benzo[b]fluoranthene	**410**		210	33	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Benzo[g,h,i]perylene	**250**		210	22	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Benzo[k]fluoranthene	**190**	**J**	210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Biphenyl	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Bis(2-ethylhexyl) phthalate	**360**		210	71	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Caprolactam	ND		210	63	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Carbazole	**26**	**J**	210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Chrysene	**280**		210	47	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Dibenz(a,h)anthracene	**64**	**J**	210	37	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Dibenzofuran	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-2
Date Collected: 06/14/22 11:45
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-2
Matrix: Solid
Percent Solids: 79.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Fluoranthene	**430**		210	22	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Fluorene	ND		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Hexachloroethane	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Indeno[1,2,3-cd]pyrene	**210**		210	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Isophorone	ND		210	44	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Naphthalene	ND		210	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Nitrobenzene	ND		210	23	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Phenanthrene	**150**	**J**	210	31	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Phenol	ND		210	32	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1
Pyrene	**370**		210	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*54 - 120*	*06/14/22 15:39*	*06/16/22 05:12*	*1*
2-Fluorobiphenyl	*70*		*60 - 120*	*06/14/22 15:39*	*06/16/22 05:12*	*1*
2-Fluorophenol	*60*		*52 - 120*	*06/14/22 15:39*	*06/16/22 05:12*	*1*
Nitrobenzene-d5	*62*		*53 - 120*	*06/14/22 15:39*	*06/16/22 05:12*	*1*
Phenol-d5	*67*		*54 - 120*	*06/14/22 15:39*	*06/16/22 05:12*	*1*
p-Terphenyl-d14	*84*		*79 - 130*	*06/14/22 15:39*	*06/16/22 05:12*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**3.4**	**J**	10	2.0	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
4,4'-DDE	**2.9**	**J**	10	2.2	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
4,4'-DDT	**3.8**	**J B**	10	2.4	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Aldrin	ND		10	2.5	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
alpha-BHC	ND		10	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
beta-BHC	ND		10	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
cis-Chlordane	ND		10	5.1	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
delta-BHC	ND		10	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Dieldrin	ND		10	2.5	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Endosulfan I	ND		10	2.0	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Endosulfan II	ND		10	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Endosulfan sulfate	ND		10	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Endrin	ND		10	2.0	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Endrin aldehyde	ND		10	2.6	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Endrin ketone	ND		10	2.5	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
gamma-BHC (Lindane)	ND		10	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Heptachlor	ND		10	2.2	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Heptachlor epoxide	ND		10	2.7	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Methoxychlor	**3.0**	**J**	10	2.1	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
Toxaphene	ND		100	60	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5
trans-Chlordane	ND		10	3.3	ug/Kg	☼	06/15/22 15:40	06/16/22 14:49	5

Client Sample ID: SS-2
Date Collected: 06/14/22 11:45
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-2
Matrix: Solid
Percent Solids: 79.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*06/15/22 15:40*	*06/16/22 14:49*	*5*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*06/15/22 15:40*	*06/16/22 14:49*	*5*
Tetrachloro-m-xylene	*69*		*30 - 124*	*06/15/22 15:40*	*06/16/22 14:49*	*5*
Tetrachloro-m-xylene	*52*		*30 - 124*	*06/15/22 15:40*	*06/16/22 14:49*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	☼	06/14/22 15:43	06/15/22 22:23	1
PCB-1221	ND		0.30	0.058	mg/Kg	☼	06/14/22 15:43	06/15/22 22:23	1
PCB-1232	ND		0.30	0.058	mg/Kg	☼	06/14/22 15:43	06/15/22 22:23	1
PCB-1242	ND		0.30	0.058	mg/Kg	☼	06/14/22 15:43	06/15/22 22:23	1
PCB-1248	ND		0.30	0.058	mg/Kg	☼	06/14/22 15:43	06/15/22 22:23	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	06/14/22 15:43	06/15/22 22:23	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	06/14/22 15:43	06/15/22 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*06/14/22 15:43*	*06/15/22 22:23*	*1*
Tetrachloro-m-xylene	*100*		*60 - 154*	*06/14/22 15:43*	*06/15/22 22:23*	*1*
DCB Decachlorobiphenyl	*89*		*65 - 174*	*06/14/22 15:43*	*06/15/22 22:23*	*1*
DCB Decachlorobiphenyl	*92*		*65 - 174*	*06/14/22 15:43*	*06/15/22 22:23*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.7	ug/Kg	☼	06/22/22 09:44	06/27/22 15:46	1
2,4-D	ND		21	13	ug/Kg	☼	06/22/22 09:44	06/27/22 15:46	1
Silvex (2,4,5-TP)	ND		21	7.6	ug/Kg	☼	06/22/22 09:44	06/27/22 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*06/22/22 09:44*	*06/27/22 15:46*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*06/22/22 09:44*	*06/27/22 15:46*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.46**	**J**	0.62	0.41	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluoropentanoic acid (PFPeA)	**0.12**	**J**	0.25	0.069	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorohexanoic acid (PFHxA)	**0.18**	**J**	0.25	0.057	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluoroheptanoic acid (PFHpA)	**0.18**	**J**	0.25	0.049	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorooctanoic acid (PFOA)	**0.56**		0.25	0.072	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorononanoic acid (PFNA)	**0.24**	**J**	0.25	0.042	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorodecanoic acid (PFDA)	**0.15**	**J**	0.25	0.035	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluoroundecanoic acid (PFUnA)	**0.14**	**J**	0.25	0.034	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorododecanoic acid (PFDoA)	**0.097**	**J**	0.25	0.031	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorotridecanoic acid (PFTriA)	**0.067**	**J**	0.25	0.031	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorotetradecanoic acid (PFTeA)	**0.038**	**J**	0.25	0.032	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.25	0.041	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.25	0.051	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.25	0.029	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1

Client Sample ID: SS-2
Date Collected: 06/14/22 11:45
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-2
Matrix: Solid
Percent Solids: 79.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**2.3**		0.25	0.14	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorodecanesulfonic acid (PFDS)	**0.029**	**J**	0.25	0.024	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.25	0.042	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.5	0.14	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.5	0.10	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.5	0.071	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.5	0.046	ug/Kg	☼	06/16/22 08:22	06/16/22 17:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*63*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C4 PFHpA	*76*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C4 PFOA	*81*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C4 PFOS	*59*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C5 PFNA	*78*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C4 PFBA	*90*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C2 PFHxA	*84*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C2 PFDA	*74*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C2 PFUnA	*83*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C2 PFDoA	*72*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C8 FOSA	*58*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C5 PFPeA	*87*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
d3-NMeFOSAA	*100*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
d5-NEtFOSAA	*119*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
M2-6:2 FTS	*87*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
M2-8:2 FTS	*101*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*
13C3 PFBS	*65*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17800**		12.2	5.4	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Antimony	**1.7**	**J**	18.3	0.49	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Arsenic	**8.9**		2.4	0.49	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Barium	**79.2**		0.61	0.13	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Beryllium	**0.92**		0.24	0.034	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Cadmium	**0.62**		0.24	0.037	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Calcium	**17400**	**B**	61.0	4.0	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Chromium	**50.8**		0.61	0.24	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Cobalt	**15.1**		0.61	0.061	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Copper	**40.7**		1.2	0.26	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Iron	**36400**	**B**	12.2	4.3	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Lead	**56.6**		1.2	0.29	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Magnesium	**5150**		24.4	1.1	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Manganese	**1190**	**B**	0.24	0.039	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Nickel	**49.5**		6.1	0.28	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Potassium	**3510**		36.6	24.4	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-2
Lab Sample ID: 480-198998-2
Date Collected: 06/14/22 11:45
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 79.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.9	0.49	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Silver	ND		0.73	0.24	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Sodium	**85.7**	**J**	171	15.9	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Thallium	ND		7.3	0.37	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Vanadium	**49.5**		0.61	0.13	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1
Zinc	**316**		2.4	0.78	mg/Kg	☼	06/15/22 11:09	06/16/22 17:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.085**		0.026	0.0059	mg/Kg	☼	06/15/22 09:21	06/15/22 12:07	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-3
Date Collected: 06/14/22 12:00
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-3
Matrix: Solid
Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	65	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2-Methylphenol	ND		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4-Methylphenol	ND		390	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Acenaphthene	ND		200	30	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Acenaphthylene	**34**	**J**	200	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Acetophenone	ND		200	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Anthracene	ND		200	50	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Atrazine	ND		200	70	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Benzo[a]anthracene	**250**		200	20	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Benzo[a]pyrene	**420**		200	30	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Benzo[b]fluoranthene	**570**		200	32	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Benzo[g,h,i]perylene	**360**		200	21	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Benzo[k]fluoranthene	**280**		200	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Biphenyl	ND		200	30	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Caprolactam	ND		200	60	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Carbazole	ND		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Chrysene	**390**		200	45	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Dibenz(a,h)anthracene	**110**	**J**	200	36	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Dibenzofuran	ND		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-3
Date Collected: 06/14/22 12:00
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-3
Matrix: Solid
Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Fluoranthene	**420**		200	21	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Fluorene	ND		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Hexachloroethane	ND		200	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Indeno[1,2,3-cd]pyrene	**320**		200	25	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Isophorone	ND		200	43	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Naphthalene	ND		200	26	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Nitrobenzene	ND		200	23	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Phenanthrene	**120**	**J**	200	30	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Phenol	ND		200	31	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1
Pyrene	**400**		200	24	ug/Kg	☼	06/14/22 15:39	06/16/22 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*54 - 120*	*06/14/22 15:39*	*06/16/22 05:36*	*1*
2-Fluorobiphenyl	*90*		*60 - 120*	*06/14/22 15:39*	*06/16/22 05:36*	*1*
2-Fluorophenol	*85*		*52 - 120*	*06/14/22 15:39*	*06/16/22 05:36*	*1*
Nitrobenzene-d5	*90*		*53 - 120*	*06/14/22 15:39*	*06/16/22 05:36*	*1*
Phenol-d5	*89*		*54 - 120*	*06/14/22 15:39*	*06/16/22 05:36*	*1*
p-Terphenyl-d14	*100*		*79 - 130*	*06/14/22 15:39*	*06/16/22 05:36*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.7	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
4,4'-DDE	ND		9.7	2.0	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
4,4'-DDT	**3.4**	**J B**	9.7	2.3	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Aldrin	ND		9.7	2.4	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
alpha-BHC	ND		9.7	1.7	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
beta-BHC	ND		9.7	1.7	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
cis-Chlordane	ND		9.7	4.8	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
delta-BHC	ND		9.7	1.8	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Dieldrin	ND		9.7	2.3	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Endosulfan I	ND		9.7	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Endosulfan II	ND		9.7	1.7	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Endosulfan sulfate	ND		9.7	1.8	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Endrin	ND		9.7	1.9	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Endrin aldehyde	ND		9.7	2.5	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Endrin ketone	ND		9.7	2.4	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
gamma-BHC (Lindane)	ND		9.7	1.8	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Heptachlor	ND		9.7	2.1	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Heptachlor epoxide	ND		9.7	2.5	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Methoxychlor	**2.5**	**J**	9.7	2.0	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
Toxaphene	ND		97	56	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5
trans-Chlordane	ND		9.7	3.1	ug/Kg	☼	06/15/22 15:40	06/16/22 15:08	5

Client Sample ID: SS-3
Date Collected: 06/14/22 12:00
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-3
Matrix: Solid
Percent Solids: 84.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	S1-	45 - 120	06/15/22 15:40	06/16/22 15:08	5
DCB Decachlorobiphenyl	0	S1-	45 - 120	06/15/22 15:40	06/16/22 15:08	5
Tetrachloro-m-xylene	71		30 - 124	06/15/22 15:40	06/16/22 15:08	5
Tetrachloro-m-xylene	57		30 - 124	06/15/22 15:40	06/16/22 15:08	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	06/14/22 15:43	06/15/22 22:36	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	06/14/22 15:43	06/15/22 22:36	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	06/14/22 15:43	06/15/22 22:36	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	06/14/22 15:43	06/15/22 22:36	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	06/14/22 15:43	06/15/22 22:36	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	06/14/22 15:43	06/15/22 22:36	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	06/14/22 15:43	06/15/22 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		60 - 154	06/14/22 15:43	06/15/22 22:36	1
Tetrachloro-m-xylene	75		60 - 154	06/14/22 15:43	06/15/22 22:36	1
DCB Decachlorobiphenyl	64	S1-	65 - 174	06/14/22 15:43	06/15/22 22:36	1
DCB Decachlorobiphenyl	65		65 - 174	06/14/22 15:43	06/15/22 22:36	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	06/22/22 09:44	06/27/22 16:04	1
2,4-D	ND		20	12	ug/Kg	☼	06/22/22 09:44	06/27/22 16:04	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	06/22/22 09:44	06/27/22 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	61		28 - 129	06/22/22 09:44	06/27/22 16:04	1
2,4-Dichlorophenylacetic acid	63		28 - 129	06/22/22 09:44	06/27/22 16:04	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.57	0.38	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluoropentanoic acid (PFPeA)	**0.090**	**J**	0.23	0.063	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorohexanoic acid (PFHxA)	**0.19**	**J I**	0.23	0.052	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluoroheptanoic acid (PFHpA)	**0.11**	**J**	0.23	0.044	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorooctanoic acid (PFOA)	**0.31**		0.23	0.066	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorononanoic acid (PFNA)	**0.20**	**J**	0.23	0.039	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorodecanoic acid (PFDA)	**0.16**	**J**	0.23	0.032	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluoroundecanoic acid (PFUnA)	**0.14**	**J**	0.23	0.031	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorododecanoic acid (PFDoA)	**0.074**	**J**	0.23	0.028	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorotridecanoic acid (PFTriA)	**0.059**	**J**	0.23	0.028	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorotetradecanoic acid (PFTeA)	**0.043**	**J**	0.23	0.030	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.038	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.047	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.026	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-3
Date Collected: 06/14/22 12:00
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-3
Matrix: Solid
Percent Solids: 84.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.5		0.23	0.13	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorodecanesulfonic acid (PFDS)	0.72		0.23	0.022	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.039	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.13	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.094	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.3	0.065	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.3	0.042	ug/Kg	☼	06/16/22 08:22	06/16/22 17:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*77*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C4 PFHpA	*91*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C4 PFOA	*89*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C4 PFOS	*69*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C5 PFNA	*86*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C4 PFBA	*104*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C2 PFHxA	*99*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C2 PFDA	*79*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C2 PFUnA	*89*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C2 PFDoA	*84*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C8 FOSA	*65*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C5 PFPeA	*98*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C2 PFTeDA	*85*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
d3-NMeFOSAA	*115*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
d5-NEtFOSAA	*120*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
M2-6:2 FTS	*94*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
M2-8:2 FTS	*104*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*
13C3 PFBS	*80*		*50 - 150*	*06/16/22 08:22*	*06/16/22 17:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13200		11.4	5.0	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Antimony	2.6	J	17.1	0.46	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Arsenic	8.3		2.3	0.46	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Barium	60.4		0.57	0.13	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Beryllium	0.80		0.23	0.032	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Cadmium	0.42		0.23	0.034	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Calcium	42100	B	56.9	3.8	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Chromium	67.9		0.57	0.23	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Cobalt	12.0		0.57	0.057	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Copper	62.1		1.1	0.24	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Iron	38300	B	11.4	4.0	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Lead	46.7		1.1	0.27	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Magnesium	5950		22.8	1.1	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Manganese	1020	B	0.23	0.036	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Nickel	63.7		5.7	0.26	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Potassium	2960		34.1	22.8	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-3
Lab Sample ID: 480-198998-3
Date Collected: 06/14/22 12:00
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 84.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.6	0.46	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Silver	ND		0.68	0.23	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Sodium	**107**	**J**	159	14.8	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Thallium	ND		6.8	0.34	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Vanadium	**38.4**		0.57	0.13	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1
Zinc	**135**		2.3	0.73	mg/Kg	☼	06/15/22 11:09	06/16/22 18:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.084**		0.024	0.0054	mg/Kg	☼	06/15/22 09:21	06/15/22 12:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-4
Date Collected: 06/14/22 12:15
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-4
Matrix: Solid
Percent Solids: 96.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10000	5600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2,4,5-Trichlorophenol	ND		17000	4700	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2,4,6-Trichlorophenol	ND		17000	3500	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2,4-Dichlorophenol	ND		17000	1800	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2,4-Dimethylphenol	ND		17000	4200	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2,4-Dinitrophenol	ND		170000	80000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2,4-Dinitrotoluene	ND		17000	3600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2,6-Dinitrotoluene	ND		17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2-Chloronaphthalene	ND		17000	2900	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2-Chlorophenol	ND		34000	3200	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2-Methylnaphthalene	ND		17000	3500	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2-Methylphenol	ND		17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2-Nitroaniline	ND		34000	2600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
2-Nitrophenol	ND		17000	4900	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
3,3'-Dichlorobenzidine	ND		34000	21000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
3-Nitroaniline	ND		34000	4800	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4,6-Dinitro-2-methylphenol	ND		34000	17000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4-Bromophenyl phenyl ether	ND		17000	2500	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4-Chloro-3-methylphenol	ND		17000	4300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4-Chloroaniline	ND		17000	4300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4-Chlorophenyl phenyl ether	ND		17000	2200	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4-Methylphenol	ND		34000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4-Nitroaniline	ND		34000	9100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
4-Nitrophenol	ND		34000	12000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Acenaphthene	ND		17000	2600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Acenaphthylene	ND		17000	2300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Acetophenone	ND		17000	2400	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Anthracene	ND		17000	4300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Atrazine	ND		17000	6000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Benzaldehyde	ND		17000	14000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Benzo[a]anthracene	ND		17000	1700	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Benzo[a]pyrene	ND		17000	2600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Benzo[b]fluoranthene	ND		17000	2800	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Benzo[g,h,i]perylene	ND		17000	1800	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Benzo[k]fluoranthene	ND		17000	2300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Biphenyl	ND		17000	2600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
bis (2-chloroisopropyl) ether	ND		17000	3500	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Bis(2-chloroethoxy)methane	ND		17000	3700	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Bis(2-chloroethyl)ether	ND		17000	2300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Bis(2-ethylhexyl) phthalate	ND		17000	5900	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Butyl benzyl phthalate	ND		17000	2900	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Caprolactam	ND		17000	5200	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Carbazole	ND		17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Chrysene	ND		17000	3900	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Dibenz(a,h)anthracene	ND		17000	3100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Dibenzofuran	ND		17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Diethyl phthalate	ND		17000	2300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Dimethyl phthalate	ND		17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Di-n-butyl phthalate	ND		17000	3000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-4
Lab Sample ID: 480-198998-4
Date Collected: 06/14/22 12:15
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 96.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Fluoranthene	**3500**	**J**	17000	1800	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Fluorene	ND		17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Hexachlorobenzene	ND		17000	2400	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Hexachlorobutadiene	ND		17000	2600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Hexachlorocyclopentadiene	ND		17000	2400	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Hexachloroethane	ND		17000	2300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Indeno[1,2,3-cd]pyrene	ND		17000	2200	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Isophorone	ND		17000	3700	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Naphthalene	ND		17000	2300	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Nitrobenzene	ND		17000	1900	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
N-Nitrosodi-n-propylamine	ND		17000	3000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
N-Nitrosodiphenylamine	ND		17000	14000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Pentachlorophenol	ND		34000	17000	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Phenanthrene	ND		17000	2600	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Phenol	ND		17000	2700	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10
Pyrene	**2100**	**J**	17000	2100	ug/Kg	☼	06/14/22 15:39	06/16/22 06:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*54 - 120*	*06/14/22 15:39*	*06/16/22 06:01*	*10*
2-Fluorobiphenyl	*92*		*60 - 120*	*06/14/22 15:39*	*06/16/22 06:01*	*10*
2-Fluorophenol	*0*	*S1-*	*52 - 120*	*06/14/22 15:39*	*06/16/22 06:01*	*10*
Nitrobenzene-d5	*0*	*S1-*	*53 - 120*	*06/14/22 15:39*	*06/16/22 06:01*	*10*
Phenol-d5	*0*	*S1-*	*54 - 120*	*06/14/22 15:39*	*06/16/22 06:01*	*10*
p-Terphenyl-d14	*0*	*S1-*	*79 - 130*	*06/14/22 15:39*	*06/16/22 06:01*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		86	17	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
4,4'-DDE	ND		86	18	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
4,4'-DDT	**28**	**J B**	86	20	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Aldrin	ND		86	21	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
alpha-BHC	ND		86	15	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
beta-BHC	ND		86	15	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
cis-Chlordane	ND		86	43	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
delta-BHC	ND		86	16	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Dieldrin	ND		86	21	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Endosulfan I	ND		86	16	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Endosulfan II	ND		86	15	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Endosulfan sulfate	ND		86	16	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Endrin	ND		86	17	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Endrin aldehyde	ND		86	22	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Endrin ketone	ND		86	21	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
gamma-BHC (Lindane)	ND		86	16	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Heptachlor	ND		86	19	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Heptachlor epoxide	ND		86	22	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Methoxychlor	ND		86	18	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
Toxaphene	ND		860	500	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50
trans-Chlordane	ND		86	27	ug/Kg	☼	06/15/22 15:40	06/16/22 15:28	50

Client Sample ID: SS-4
Date Collected: 06/14/22 12:15
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-4
Matrix: Solid
Percent Solids: 96.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*06/15/22 15:40*	*06/16/22 15:28*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*06/15/22 15:40*	*06/16/22 15:28*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/15/22 15:40*	*06/16/22 15:28*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/15/22 15:40*	*06/16/22 15:28*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.18	0.035	mg/Kg	☼	06/14/22 15:43	06/15/22 22:50	1
PCB-1221	ND		0.18	0.035	mg/Kg	☼	06/14/22 15:43	06/15/22 22:50	1
PCB-1232	ND		0.18	0.035	mg/Kg	☼	06/14/22 15:43	06/15/22 22:50	1
PCB-1242	ND		0.18	0.035	mg/Kg	☼	06/14/22 15:43	06/15/22 22:50	1
PCB-1248	ND		0.18	0.035	mg/Kg	☼	06/14/22 15:43	06/15/22 22:50	1
PCB-1254	ND		0.18	0.084	mg/Kg	☼	06/14/22 15:43	06/15/22 22:50	1
PCB-1260	ND		0.18	0.084	mg/Kg	☼	06/14/22 15:43	06/15/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*60 - 154*	*06/14/22 15:43*	*06/15/22 22:50*	*1*
Tetrachloro-m-xylene	*76*		*60 - 154*	*06/14/22 15:43*	*06/15/22 22:50*	*1*
DCB Decachlorobiphenyl	*64*	*S1-*	*65 - 174*	*06/14/22 15:43*	*06/15/22 22:50*	*1*
DCB Decachlorobiphenyl	*67*		*65 - 174*	*06/14/22 15:43*	*06/15/22 22:50*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.5	ug/Kg	☼	06/22/22 09:44	06/27/22 14:51	1
2,4-D	ND		17	11	ug/Kg	☼	06/22/22 09:44	06/27/22 14:51	1
Silvex (2,4,5-TP)	ND		17	6.2	ug/Kg	☼	06/22/22 09:44	06/27/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*06/22/22 09:44*	*06/27/22 14:51*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*06/22/22 09:44*	*06/27/22 14:51*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.33	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.055	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.046	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.039	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.058	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorononanoic acid (PFNA)	**0.037**	**J**	0.20	0.034	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorodecanoic acid (PFDA)	**0.064**	**J**	0.20	0.028	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluoroundecanoic acid (PFUnA)	**0.079**	**J**	0.20	0.027	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorododecanoic acid (PFDoA)	**0.13**	**J**	0.20	0.025	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorotridecanoic acid (PFTriA)	**0.066**	**J**	0.20	0.025	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorotetradecanoic acid (PFTeA)	**0.062**	**J**	0.20	0.026	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.033	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.041	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.023	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1

Client Sample ID: SS-4
Date Collected: 06/14/22 12:15
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-4
Matrix: Solid
Percent Solids: 96.2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.27**		0.20	0.11	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorodecanesulfonic acid (PFDS)	**0.066**	**J**	0.20	0.019	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.034	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.11	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.082	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0	0.057	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.037	ug/Kg	☼	06/16/22 08:22	06/16/22 18:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*82*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C4 PFHpA	*104*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C4 PFOA	*98*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C4 PFOS	*76*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C5 PFNA	*95*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C4 PFBA	*38*	**5-*	*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C2 PFHxA	*101*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C2 PFDA	*100*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C2 PFUnA	*107*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C2 PFDoA	*102*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C8 FOSA	*69*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C5 PFPeA	*98*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C2 PFTeDA	*97*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
d3-NMeFOSAA	*161*	**5+*	*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
d5-NEtFOSAA	*185*	**5+*	*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
M2-6:2 FTS	*148*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
M2-8:2 FTS	*161*	**5+*	*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*
13C3 PFBS	*85*		*50 - 150*	*06/16/22 08:22*	*06/16/22 18:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3900**		10.7	4.7	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Antimony	**0.70**	**J**	16.1	0.43	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Arsenic	**2.4**		2.1	0.43	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Barium	**32.8**		0.54	0.12	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Beryllium	**0.46**		0.21	0.030	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Cadmium	**0.33**		0.21	0.032	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Calcium	**123000**	**B**	107	7.1	mg/Kg	☼	06/15/22 11:09	06/17/22 14:56	2
Chromium	**54.6**		0.54	0.21	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Cobalt	**2.2**		0.54	0.054	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Copper	**20.3**		2.1	0.45	mg/Kg	☼	06/15/22 11:09	06/17/22 14:56	2
Iron	**10700**	**B**	10.7	3.8	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Lead	**149**		1.1	0.26	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Magnesium	**8380**		21.5	1.0	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Manganese	**416**	**B**	0.21	0.034	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Nickel	**12.5**		5.4	0.25	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Potassium	**921**		32.2	21.5	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-4
Lab Sample ID: 480-198998-4
Date Collected: 06/14/22 12:15
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 96.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.3	0.43	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Silver	ND		0.64	0.21	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Sodium	**159**		150	14.0	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Thallium	ND		6.4	0.32	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Vanadium	**13.2**		0.54	0.12	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1
Zinc	**259**		2.1	0.69	mg/Kg	☼	06/15/22 11:09	06/16/22 18:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0062**	**J**	0.021	0.0049	mg/Kg	☼	06/15/22 09:21	06/15/22 12:09	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-198998-1	SS-1	84	83	69	77	74	93
480-198998-2	SS-2	72	70	60	62	67	84
480-198998-3	SS-3	91	90	85	90	89	100
480-198998-4	SS-4	0 S1-	92	0 S1-	0 S1-	0 S1-	0 S1-
LCS 480-630018/2-A	Lab Control Sample	83	82	74	78	73	102
MB 480-630018/1-A	Method Blank	76	90	80	84	87	118

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-198998-1	SS-1	58	152 S1+	68	57
480-198998-2	SS-2	0 S1-	0 S1-	69	52
480-198998-3	SS-3	0 S1-	0 S1-	71	57
480-198998-4	SS-4	0 S1-	0 S1-	0 S1-	0 S1-
LCS 480-630207/2-A	Lab Control Sample	68	78	51	49
MB 480-630207/1-A	Method Blank	74	85	61	58

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-198998-1	SS-1	68	73	65	69
480-198998-2	SS-2	97	100	89	92
480-198998-3	SS-3	71	75	64 S1-	65
480-198998-4	SS-4	71	76	64 S1-	67
LCS 480-630019/2-A	Lab Control Sample	109	118	108	115
MB 480-630019/1-A	Method Blank	93	99	90	94

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 8151A - Herbicides (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (28-129)	DCPAA2 (28-129)								
480-198998-1	SS-1	79	75								
480-198998-2	SS-2	69	73								
480-198998-3	SS-3	61	63								
480-198998-4	SS-4	67	70								
480-198998-4 MS	SS-4	66	67								
480-198998-4 MSD	SS-4	66	70								
LCS 480-631065/2-A	Lab Control Sample	75	78								
MB 480-631065/1-A	Method Blank	74	70								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (50-150)	PFHxA (50-150)	PFDA (50-150)
480-198998-1	SS-1	69	89	82	65	77	102	91	77
480-198998-2	SS-2	63	76	81	59	78	90	84	74
480-198998-2 MS	SS-2	66	87	81	61	79	97	87	77
480-198998-2 MSD	SS-2	63	71	80	62	75	92	82	75
480-198998-3	SS-3	77	91	89	69	86	104	99	79
480-198998-4	SS-4	82	104	98	76	95	38 *5-	101	100
LCS 200-180836/2-A	Lab Control Sample	85	94	90	79	94	64	98	86
MB 200-180836/1-A	Method Blank	84	95	91	81	92	85	98	93

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFOSA (50-150)	PFPeA (50-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (50-150)
480-198998-1	SS-1	81	77	64	95	84	101	112	79
480-198998-2	SS-2	83	72	58	87	80	100	119	87
480-198998-2 MS	SS-2	82	75	60	87	78	105	140	85
480-198998-2 MSD	SS-2	73	71	58	82	76	93	107	99
480-198998-3	SS-3	89	84	65	98	85	115	120	94
480-198998-4	SS-4	107	102	69	98	97	161 *5+	185 *5+	148
LCS 200-180836/2-A	Lab Control Sample	84	82	80	97	79	121	116	82
MB 200-180836/1-A	Method Blank	88	78	78	105	78	117	116	84

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M282FTS (50-150)	C3PFBS (50-150)						
480-198998-1	SS-1	92	74						
480-198998-2	SS-2	101	65						
480-198998-2 MS	SS-2	93	69						
480-198998-2 MSD	SS-2	83	68						
480-198998-3	SS-3	104	80						
480-198998-4	SS-4	161 *5+	85						
LCS 200-180836/2-A	Lab Control Sample	86	84						
MB 200-180836/1-A	Method Blank	85	87						

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

C3PFBS = 13C3 PFBS

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-630018/1-A
Matrix: Solid
Analysis Batch: 630154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		98	54	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2-Chloronaphthalene	ND		170	27	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2-Chlorophenol	ND		320	30	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2-Methylnaphthalene	ND		170	33	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2-Methylphenol	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2-Nitroaniline	ND		320	24	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
2-Nitrophenol	ND		170	47	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
3,3'-Dichlorobenzidine	ND		320	200	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
3-Nitroaniline	ND		320	46	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4-Bromophenyl phenyl ether	ND		170	23	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4-Chloroaniline	ND		170	41	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4-Methylphenol	ND		320	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4-Nitroaniline	ND		320	87	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
4-Nitrophenol	ND		320	120	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Acenaphthene	ND		170	24	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Acenaphthylene	ND		170	22	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Acetophenone	ND		170	23	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Anthracene	ND		170	41	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Atrazine	ND		170	58	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Benzaldehyde	ND		170	130	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Benzo[a]anthracene	ND		170	17	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Benzo[a]pyrene	ND		170	24	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Biphenyl	ND		170	24	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Butyl benzyl phthalate	ND		170	27	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Caprolactam	ND		170	50	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Carbazole	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Chrysene	ND		170	37	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Dibenzofuran	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Diethyl phthalate	ND		170	22	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Dimethyl phthalate	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-630018/1-A
Matrix: Solid
Analysis Batch: 630154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		170	28	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Fluoranthene	ND		170	18	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Fluorene	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Hexachlorobenzene	ND		170	23	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Hexachlorobutadiene	ND		170	24	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Hexachloroethane	ND		170	22	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Isophorone	ND		170	35	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Naphthalene	ND		170	22	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Nitrobenzene	ND		170	19	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Pentachlorophenol	ND		320	170	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Phenanthrene	ND		170	24	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Phenol	ND		170	25	ug/Kg		06/14/22 15:39	06/16/22 01:34	1
Pyrene	ND		170	20	ug/Kg		06/14/22 15:39	06/16/22 01:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*54 - 120*	*06/14/22 15:39*	*06/16/22 01:34*	*1*
2-Fluorobiphenyl	*90*		*60 - 120*	*06/14/22 15:39*	*06/16/22 01:34*	*1*
2-Fluorophenol	*80*		*52 - 120*	*06/14/22 15:39*	*06/16/22 01:34*	*1*
Nitrobenzene-d5	*84*		*53 - 120*	*06/14/22 15:39*	*06/16/22 01:34*	*1*
Phenol-d5	*87*		*54 - 120*	*06/14/22 15:39*	*06/16/22 01:34*	*1*
p-Terphenyl-d14	*118*		*79 - 130*	*06/14/22 15:39*	*06/16/22 01:34*	*1*

Lab Sample ID: LCS 480-630018/2-A
Matrix: Solid
Analysis Batch: 630154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	729		ug/Kg		44	23 - 120
2,4,5-Trichlorophenol	1650	1460		ug/Kg		88	59 - 126
2,4,6-Trichlorophenol	1650	1460		ug/Kg		88	59 - 123
2,4-Dichlorophenol	1650	1330		ug/Kg		80	61 - 120
2,4-Dimethylphenol	1650	1300		ug/Kg		79	59 - 120
2,4-Dinitrophenol	3310	2110		ug/Kg		64	41 - 146
2,4-Dinitrotoluene	1650	1360		ug/Kg		82	63 - 120
2,6-Dinitrotoluene	1650	1350		ug/Kg		82	66 - 120
2-Chloronaphthalene	1650	1380		ug/Kg		84	57 - 120
2-Chlorophenol	1650	1260		ug/Kg		76	53 - 120
2-Methylnaphthalene	1650	1210		ug/Kg		73	59 - 120
2-Methylphenol	1650	1310		ug/Kg		79	54 - 120
2-Nitroaniline	1650	1450		ug/Kg		87	61 - 120
2-Nitrophenol	1650	1270		ug/Kg		77	56 - 120
3,3'-Dichlorobenzidine	3310	2080		ug/Kg		63	54 - 120
3-Nitroaniline	1650	1050		ug/Kg		64	48 - 120

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-630018/2-A
Matrix: Solid
Analysis Batch: 630154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	3310	2600		ug/Kg		79	49 - 122
4-Bromophenyl phenyl ether	1650	1430		ug/Kg		86	58 - 120
4-Chloro-3-methylphenol	1650	1400		ug/Kg		84	61 - 120
4-Chloroaniline	1650	970		ug/Kg		59	38 - 120
4-Chlorophenyl phenyl ether	1650	1440		ug/Kg		87	63 - 124
4-Methylphenol	1650	1320		ug/Kg		80	55 - 120
4-Nitroaniline	1650	1360		ug/Kg		82	56 - 120
4-Nitrophenol	3310	2610		ug/Kg		79	43 - 147
Acenaphthene	1650	1440		ug/Kg		87	62 - 120
Acenaphthylene	1650	1420		ug/Kg		86	58 - 121
Acetophenone	1650	1270		ug/Kg		77	54 - 120
Anthracene	1650	1480		ug/Kg		89	62 - 120
Atrazine	3310	2810		ug/Kg		85	60 - 127
Benzaldehyde	3310	1970		ug/Kg		59	10 - 150
Benzo[a]anthracene	1650	1390		ug/Kg		84	65 - 120
Benzo[a]pyrene	1650	1550		ug/Kg		93	64 - 120
Benzo[b]fluoranthene	1650	1640		ug/Kg		99	64 - 120
Benzo[g,h,i]perylene	1650	1360		ug/Kg		82	45 - 145
Benzo[k]fluoranthene	1650	1530		ug/Kg		92	65 - 120
Biphenyl	1650	1380		ug/Kg		83	59 - 120
bis (2-chloroisopropyl) ether	1650	1210		ug/Kg		73	44 - 120
Bis(2-chloroethoxy)methane	1650	1270		ug/Kg		77	55 - 120
Bis(2-chloroethyl)ether	1650	1250		ug/Kg		76	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1500		ug/Kg		91	61 - 133
Butyl benzyl phthalate	1650	1640		ug/Kg		99	61 - 129
Caprolactam	3310	2630		ug/Kg		80	47 - 120
Carbazole	1650	1400		ug/Kg		85	65 - 120
Chrysene	1650	1420		ug/Kg		86	64 - 120
Dibenz(a,h)anthracene	1650	1420		ug/Kg		86	54 - 132
Dibenzofuran	1650	1410		ug/Kg		85	63 - 120
Diethyl phthalate	1650	1370		ug/Kg		83	66 - 120
Dimethyl phthalate	1650	1430		ug/Kg		86	65 - 124
Di-n-butyl phthalate	1650	1450		ug/Kg		88	58 - 130
Di-n-octyl phthalate	1650	1440		ug/Kg		87	57 - 133
Fluoranthene	1650	1380		ug/Kg		83	62 - 120
Fluorene	1650	1420		ug/Kg		86	63 - 120
Hexachlorobenzene	1650	1390		ug/Kg		84	60 - 120
Hexachlorobutadiene	1650	1230		ug/Kg		74	45 - 120
Hexachlorocyclopentadiene	1650	1350		ug/Kg		81	47 - 120
Hexachloroethane	1650	1130		ug/Kg		68	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1350		ug/Kg		82	56 - 134
Isophorone	1650	1390		ug/Kg		84	56 - 120
Naphthalene	1650	1320		ug/Kg		80	55 - 120
Nitrobenzene	1650	1330		ug/Kg		81	54 - 120
N-Nitrosodi-n-propylamine	1650	1310		ug/Kg		79	52 - 120
Pentachlorophenol	3310	2450		ug/Kg		74	51 - 120
Phenanthrene	1650	1440		ug/Kg		87	60 - 120
Phenol	1650	1220		ug/Kg		74	53 - 120
Pyrene	1650	1710		ug/Kg		103	61 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	83		54 - 120
2-Fluorobiphenyl	82		60 - 120
2-Fluorophenol	74		52 - 120
Nitrobenzene-d5	78		53 - 120
Phenol-d5	73		54 - 120
p-Terphenyl-d14	102		79 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-630207/1-A
Matrix: Solid
Analysis Batch: 630248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
4,4'-DDT	0.517	J	1.6	0.38	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Aldrin	ND		1.6	0.40	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
alpha-BHC	ND		1.6	0.30	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
beta-BHC	ND		1.6	0.30	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
cis-Chlordane	ND		1.6	0.82	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
delta-BHC	ND		1.6	0.31	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Dieldrin	ND		1.6	0.39	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Endosulfan I	ND		1.6	0.31	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Endosulfan II	ND		1.6	0.30	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Endosulfan sulfate	ND		1.6	0.31	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Endrin	ND		1.6	0.32	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Endrin aldehyde	0.516	J	1.6	0.42	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Endrin ketone	ND		1.6	0.40	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Heptachlor	ND		1.6	0.36	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Methoxychlor	ND		1.6	0.33	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
Toxaphene	ND		16	9.5	ug/Kg		06/15/22 15:40	06/16/22 09:55	1
trans-Chlordane	ND		1.6	0.52	ug/Kg		06/15/22 15:40	06/16/22 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		45 - 120	06/15/22 15:40	06/16/22 09:55	1
DCB Decachlorobiphenyl	85		45 - 120	06/15/22 15:40	06/16/22 09:55	1
Tetrachloro-m-xylene	61		30 - 124	06/15/22 15:40	06/16/22 09:55	1
Tetrachloro-m-xylene	58		30 - 124	06/15/22 15:40	06/16/22 09:55	1

Lab Sample ID: LCS 480-630207/2-A
Matrix: Solid
Analysis Batch: 630248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.4	10.8		ug/Kg		66	56 - 120
4,4'-DDE	16.4	10.1		ug/Kg		62	44 - 120
4,4'-DDT	16.4	9.20		ug/Kg		56	38 - 120
Aldrin	16.4	7.63		ug/Kg		47	38 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-630207/2-A
Matrix: Solid
Analysis Batch: 630248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	16.4	8.64		ug/Kg		53	39 - 120
beta-BHC	16.4	10.0		ug/Kg		61	40 - 120
cis-Chlordane	16.4	8.72		ug/Kg		53	47 - 120
delta-BHC	16.4	9.45		ug/Kg		58	45 - 120
Dieldrin	16.4	10.5		ug/Kg		64	58 - 120
Endosulfan I	16.4	9.93		ug/Kg		61	49 - 120
Endosulfan II	16.4	9.88		ug/Kg		60	55 - 120
Endosulfan sulfate	16.4	9.20		ug/Kg		56	49 - 124
Endrin	16.4	10.7		ug/Kg		65	58 - 120
Endrin aldehyde	16.4	8.08		ug/Kg		49	37 - 121
Endrin ketone	16.4	10.4		ug/Kg		64	46 - 123
gamma-BHC (Lindane)	16.4	8.68		ug/Kg		53	50 - 120
Heptachlor	16.4	10.1		ug/Kg		62	50 - 120
Heptachlor epoxide	16.4	11.6		ug/Kg		71	50 - 120
Methoxychlor	16.4	10.7		ug/Kg		65	58 - 133
trans-Chlordane	16.4	12.4		ug/Kg		76	48 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*45 - 120*
DCB Decachlorobiphenyl	*78*		*45 - 120*
Tetrachloro-m-xylene	*51*		*30 - 124*
Tetrachloro-m-xylene	*49*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-630019/1-A
Matrix: Solid
Analysis Batch: 630203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.18	0.035	mg/Kg		06/14/22 15:43	06/15/22 19:55	1
PCB-1221	ND		0.18	0.035	mg/Kg		06/14/22 15:43	06/15/22 19:55	1
PCB-1232	ND		0.18	0.035	mg/Kg		06/14/22 15:43	06/15/22 19:55	1
PCB-1242	ND		0.18	0.035	mg/Kg		06/14/22 15:43	06/15/22 19:55	1
PCB-1248	ND		0.18	0.035	mg/Kg		06/14/22 15:43	06/15/22 19:55	1
PCB-1254	ND		0.18	0.085	mg/Kg		06/14/22 15:43	06/15/22 19:55	1
PCB-1260	ND		0.18	0.085	mg/Kg		06/14/22 15:43	06/15/22 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*60 - 154*	*06/14/22 15:43*	*06/15/22 19:55*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*06/14/22 15:43*	*06/15/22 19:55*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*06/14/22 15:43*	*06/15/22 19:55*	*1*
DCB Decachlorobiphenyl	*94*		*65 - 174*	*06/14/22 15:43*	*06/15/22 19:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-630019/2-A
Matrix: Solid
Analysis Batch: 630203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630019

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			1.75	2.08		mg/Kg		119	51 - 185		
PCB-1260			1.75	2.14		mg/Kg		123	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*60 - 154*
Tetrachloro-m-xylene	*118*		*60 - 154*
DCB Decachlorobiphenyl	*108*		*65 - 174*
DCB Decachlorobiphenyl	*115*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-631065/1-A
Matrix: Solid
Analysis Batch: 631639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg		06/22/22 09:44	06/27/22 11:37	1
2,4-D	ND		17	10	ug/Kg		06/22/22 09:44	06/27/22 11:37	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg		06/22/22 09:44	06/27/22 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*06/22/22 09:44*	*06/27/22 11:37*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*06/22/22 09:44*	*06/27/22 11:37*	*1*

Lab Sample ID: LCS 480-631065/2-A
Matrix: Solid
Analysis Batch: 631639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631065

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			66.4	47.5		ug/Kg		72	41 - 120		
2,4-D			66.4	47.2		ug/Kg		71	40 - 120		
Silvex (2,4,5-TP)			66.4	48.8		ug/Kg		73	39 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*

Lab Sample ID: 480-198998-4 MS
Matrix: Solid
Analysis Batch: 631639

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 631065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T	ND		68.7	42.1		ug/Kg	☼	61	29 - 123		
2,4-D	ND		68.7	48.1		ug/Kg	☼	70	32 - 115		
Silvex (2,4,5-TP)	ND		68.7	43.4		ug/Kg	☼	63	22 - 140		

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-198998-4 MS
Matrix: Solid
Analysis Batch: 631639

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 631065

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*

Lab Sample ID: 480-198998-4 MSD
Matrix: Solid
Analysis Batch: 631639

Client Sample ID: SS-4
Prep Type: Total/NA
Prep Batch: 631065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	ND		69.0	45.6		ug/Kg	☼	66	29 - 123	8	50
2,4-D	ND		69.0	48.9		ug/Kg	☼	71	32 - 115	2	50
Silvex (2,4,5-TP)	ND		69.0	45.5		ug/Kg	☼	66	22 - 140	5	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-180836/1-A
Matrix: Solid
Analysis Batch: 180869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.33	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.055	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.046	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.039	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.058	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.034	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.028	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.027	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.025	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.025	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.026	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.033	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.041	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.023	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.019	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.034	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.11	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.083	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0	0.057	ug/Kg		06/16/22 08:22	06/16/22 16:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.037	ug/Kg		06/16/22 08:22	06/16/22 16:41	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	84		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C4 PFHpA	95		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C4 PFOA	91		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C4 PFOS	81		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C5 PFNA	92		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C4 PFBA	85		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C2 PFHxA	98		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C2 PFDA	93		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C2 PFUnA	88		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C2 PFDoA	78		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C8 FOSA	78		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C5 PFPeA	105		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C2 PFTeDA	78		50 - 150	06/16/22 08:22	06/16/22 16:41	1
d3-NMeFOSAA	117		50 - 150	06/16/22 08:22	06/16/22 16:41	1
d5-NEtFOSAA	116		50 - 150	06/16/22 08:22	06/16/22 16:41	1
M2-6:2 FTS	84		50 - 150	06/16/22 08:22	06/16/22 16:41	1
M2-8:2 FTS	85		50 - 150	06/16/22 08:22	06/16/22 16:41	1
13C3 PFBS	87		50 - 150	06/16/22 08:22	06/16/22 16:41	1

Lab Sample ID: LCS 200-180836/2-A
Matrix: Solid
Analysis Batch: 180869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	2.13		ug/Kg		106	60 - 140
Perfluoropentanoic acid (PFPeA)	2.00	2.00		ug/Kg		100	60 - 140
Perfluorohexanoic acid (PFHxA)	2.00	2.01		ug/Kg		101	60 - 140
Perfluoroheptanoic acid (PFHpA)	2.00	2.16		ug/Kg		108	60 - 140
Perfluorooctanoic acid (PFOA)	2.00	2.11		ug/Kg		105	60 - 140
Perfluorononanoic acid (PFNA)	2.00	1.98		ug/Kg		99	60 - 140
Perfluorodecanoic acid (PFDA)	2.00	2.10		ug/Kg		105	60 - 140
Perfluoroundecanoic acid (PFUnA)	2.00	2.00		ug/Kg		100	60 - 140
Perfluorododecanoic acid (PFDoA)	2.00	2.08		ug/Kg		104	60 - 140
Perfluorotridecanoic acid (PFTriA)	2.00	2.02		ug/Kg		101	60 - 140
Perfluorotetradecanoic acid (PFTeA)	2.00	1.96		ug/Kg		98	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.77	1.82		ug/Kg		103	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.77		ug/Kg		97	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.99		ug/Kg		105	60 - 140
Perfluorooctanesulfonic acid (PFOS)	1.86	1.89		ug/Kg		102	60 - 140
Perfluorodecanesulfonic acid (PFDS)	1.93	1.96		ug/Kg		101	60 - 140
Perfluorooctanesulfonamide (PFOSA)	2.00	2.08		ug/Kg		104	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.98	J	ug/Kg		99	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.84	J	ug/Kg		92	60 - 140

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-180836/2-A
Matrix: Solid
Analysis Batch: 180869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.90	2.11		ug/Kg		111	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.92	2.10		ug/Kg		110	60 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
18O2 PFHxS	*85*		*50 - 150*
13C4 PFHpA	*94*		*50 - 150*
13C4 PFOA	*90*		*50 - 150*
13C4 PFOS	*79*		*50 - 150*
13C5 PFNA	*94*		*50 - 150*
13C4 PFBA	*64*		*50 - 150*
13C2 PFHxA	*98*		*50 - 150*
13C2 PFDA	*86*		*50 - 150*
13C2 PFUnA	*84*		*50 - 150*
13C2 PFDoA	*82*		*50 - 150*
13C8 FOSA	*80*		*50 - 150*
13C5 PFPeA	*97*		*50 - 150*
13C2 PFTeDA	*79*		*50 - 150*
d3-NMeFOSAA	*121*		*50 - 150*
d5-NEtFOSAA	*116*		*50 - 150*
M2-6:2 FTS	*82*		*50 - 150*
M2-8:2 FTS	*86*		*50 - 150*
13C3 PFBS	*84*		*50 - 150*

Lab Sample ID: 480-198998-2 MS
Matrix: Solid
Analysis Batch: 180869

Client Sample ID: SS-2
Prep Type: Total/NA
Prep Batch: 180836

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.46	J	2.47	2.84		ug/Kg	☼	97	60 - 140
Perfluoropentanoic acid (PFPeA)	0.12	J	2.47	2.77		ug/Kg	☼	107	60 - 140
Perfluorohexanoic acid (PFHxA)	0.18	J	2.47	2.59		ug/Kg	☼	98	60 - 140
Perfluoroheptanoic acid (PFHpA)	0.18	J	2.47	2.57		ug/Kg	☼	97	60 - 140
Perfluorooctanoic acid (PFOA)	0.56		2.47	3.06		ug/Kg	☼	101	60 - 140
Perfluorononanoic acid (PFNA)	0.24	J	2.47	2.84		ug/Kg	☼	105	60 - 140
Perfluorodecanoic acid (PFDA)	0.15	J	2.47	2.71		ug/Kg	☼	103	60 - 140
Perfluoroundecanoic acid (PFUnA)	0.14	J	2.47	2.81		ug/Kg	☼	108	60 - 140
Perfluorododecanoic acid (PFDoA)	0.097	J	2.47	2.39		ug/Kg	☼	93	60 - 140
Perfluorotridecanoic acid (PFTriA)	0.067	J	2.47	2.96		ug/Kg	☼	117	60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.038	J	2.47	2.33		ug/Kg	☼	93	60 - 140
Perfluorobutanesulfonic acid (PFBS)	ND		2.18	2.27		ug/Kg	☼	104	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	ND		2.25	2.29		ug/Kg	☼	102	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.35	2.61		ug/Kg	☼	111	60 - 140

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-198998-2 MS
Matrix: Solid
Analysis Batch: 180869

Client Sample ID: SS-2
Prep Type: Total/NA
Prep Batch: 180836

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.3		2.29	4.63		ug/Kg	☼	102	60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.029	J	2.38	2.24		ug/Kg	☼	93	60 - 140
Perfluorooctanesulfonamide (PFOSA)	ND		2.47	2.62		ug/Kg	☼	106	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.47	2.42	J	ug/Kg	☼	98	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.47	2.38	J	ug/Kg	☼	97	60 - 140
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.34	2.50		ug/Kg	☼	107	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.36	2.57		ug/Kg	☼	109	60 - 140

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*66*		*50 - 150*
13C4 PFHpA	*87*		*50 - 150*
13C4 PFOA	*81*		*50 - 150*
13C4 PFOS	*61*		*50 - 150*
13C5 PFNA	*79*		*50 - 150*
13C4 PFBA	*97*		*50 - 150*
13C2 PFHxA	*87*		*50 - 150*
13C2 PFDA	*77*		*50 - 150*
13C2 PFUnA	*82*		*50 - 150*
13C2 PFDoA	*75*		*50 - 150*
13C8 FOSA	*60*		*50 - 150*
13C5 PFPeA	*87*		*50 - 150*
13C2 PFTeDA	*78*		*50 - 150*
d3-NMeFOSAA	*105*		*50 - 150*
d5-NEtFOSAA	*140*		*50 - 150*
M2-6:2 FTS	*85*		*50 - 150*
M2-8:2 FTS	*93*		*50 - 150*
13C3 PFBS	*69*		*50 - 150*

Lab Sample ID: 480-198998-2 MSD
Matrix: Solid
Analysis Batch: 180869

Client Sample ID: SS-2
Prep Type: Total/NA
Prep Batch: 180836

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.46	J	2.49	2.86		ug/Kg	☼	96	60 - 140	1	30
Perfluoropentanoic acid (PFPeA)	0.12	J	2.49	2.50		ug/Kg	☼	95	60 - 140	10	30
Perfluorohexanoic acid (PFHxA)	0.18	J	2.49	2.67		ug/Kg	☼	100	60 - 140	3	30
Perfluoroheptanoic acid (PFHpA)	0.18	J	2.49	2.92		ug/Kg	☼	110	60 - 140	13	30
Perfluorooctanoic acid (PFOA)	0.56		2.49	3.19		ug/Kg	☼	106	60 - 140	4	30
Perfluorononanoic acid (PFNA)	0.24	J	2.49	2.94		ug/Kg	☼	109	60 - 140	4	30
Perfluorodecanoic acid (PFDA)	0.15	J	2.49	2.83		ug/Kg	☼	107	60 - 140	4	30
Perfluoroundecanoic acid (PFUnA)	0.14	J	2.49	2.80		ug/Kg	☼	107	60 - 140	0	30
Perfluorododecanoic acid (PFDoA)	0.097	J	2.49	2.51		ug/Kg	☼	97	60 - 140	5	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-198998-2 MSD
Matrix: Solid
Analysis Batch: 180869

Client Sample ID: SS-2
Prep Type: Total/NA
Prep Batch: 180836

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorotridecanoic acid (PFTriA)	0.067	J	2.49	2.95		ug/Kg	☼	116	60 - 140	0	30
Perfluorotetradecanoic acid (PFTeA)	0.038	J	2.49	2.60		ug/Kg	☼	103	60 - 140	11	30
Perfluorobutanesulfonic acid (PFBS)	ND		2.20	2.26		ug/Kg	☼	103	60 - 140	0	30
Perfluorohexanesulfonic acid (PFHxS)	ND		2.27	2.33		ug/Kg	☼	103	60 - 140	2	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.37	2.47		ug/Kg	☼	104	60 - 140	5	30
Perfluorooctanesulfonic acid (PFOS)	2.3		2.31	4.65		ug/Kg	☼	102	60 - 140	0	30
Perfluorodecanesulfonic acid (PFDS)	0.029	J	2.40	2.24		ug/Kg	☼	92	60 - 140	0	30
Perfluorooctanesulfonamide (PFOSA)	ND		2.49	2.60		ug/Kg	☼	104	60 - 140	0	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.49	2.54		ug/Kg	☼	102	60 - 140	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.49	2.49	J	ug/Kg	☼	100	60 - 140	4	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.36	2.64		ug/Kg	☼	112	50 - 150	6	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.39	2.73		ug/Kg	☼	114	60 - 140	6	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
18O2 PFHxS	*63*		*50 - 150*
13C4 PFHpA	*71*		*50 - 150*
13C4 PFOA	*80*		*50 - 150*
13C4 PFOS	*62*		*50 - 150*
13C5 PFNA	*75*		*50 - 150*
13C4 PFBA	*92*		*50 - 150*
13C2 PFHxA	*82*		*50 - 150*
13C2 PFDA	*75*		*50 - 150*
13C2 PFUnA	*73*		*50 - 150*
13C2 PFDoA	*71*		*50 - 150*
13C8 FOSA	*58*		*50 - 150*
13C5 PFPeA	*82*		*50 - 150*
13C2 PFTeDA	*76*		*50 - 150*
d3-NMeFOSAA	*93*		*50 - 150*
d5-NEtFOSAA	*107*		*50 - 150*
M2-6:2 FTS	*99*		*50 - 150*
M2-8:2 FTS	*83*		*50 - 150*
13C3 PFBS	*68*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-630091/1-A
Matrix: Solid
Analysis Batch: 630391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.8	4.3	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Antimony	ND		14.7	0.39	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Arsenic	ND		2.0	0.39	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Barium	ND		0.49	0.11	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Beryllium	ND		0.20	0.027	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Cadmium	ND		0.20	0.029	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Calcium	4.01	J	49.1	3.2	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Chromium	ND		0.49	0.20	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Cobalt	ND		0.49	0.049	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Copper	ND		0.98	0.21	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Iron	ND		9.8	3.4	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Lead	ND		0.98	0.24	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Magnesium	ND		19.6	0.91	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Manganese	0.0667	J	0.20	0.031	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Nickel	ND		4.9	0.23	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Selenium	ND		3.9	0.39	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Silver	ND		0.59	0.20	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Sodium	14.28	J	137	12.8	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Thallium	ND		5.9	0.29	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Vanadium	ND		0.49	0.11	mg/Kg		06/15/22 11:09	06/16/22 16:30	1
Zinc	ND		2.0	0.63	mg/Kg		06/15/22 11:09	06/16/22 16:30	1

Lab Sample ID: MB 480-630091/1-A
Matrix: Solid
Analysis Batch: 631043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		29.4	19.6	mg/Kg		06/15/22 11:09	06/21/22 16:11	1

Lab Sample ID: LCSSRM 480-630091/2-A
Matrix: Solid
Analysis Batch: 630391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630091

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			8130	9167		mg/Kg		112.8	49.9 - 150.1		
Antimony			134	87.88		mg/Kg		65.6	19.3 - 250.0		
Arsenic			156	138.5		mg/Kg		88.8	69.9 - 130.1		
Barium			239	206.3		mg/Kg		86.3	74.9 - 124.7		
Beryllium			169	147.6		mg/Kg		87.3	75.1 - 125.4		
Cadmium			137	114.0		mg/Kg		83.2	75.2 - 124.8		
Calcium			4760	4211		mg/Kg		88.5	72.7 - 127.5		
Chromium			154	140.1		mg/Kg		91.0	70.1 - 129.9		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-630091/2-A
Matrix: Solid
Analysis Batch: 630391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630091

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	121	121.0		mg/Kg		100.0	75.0 - 124.8
Copper	54.9	49.87		mg/Kg		90.8	74.9 - 125.0
Iron	14100	14970		mg/Kg		106.1	34.9 - 164.5
Lead	130	134.9		mg/Kg		103.7	71.8 - 128.5
Magnesium	2320	2208		mg/Kg		95.2	62.1 - 137.9
Manganese	269	249.1		mg/Kg		92.6	74.0 - 126.4
Nickel	58.7	54.78		mg/Kg		93.3	64.2 - 119.3
Selenium	167	148.2		mg/Kg		88.8	67.7 - 132.3
Silver	33.6	27.56		mg/Kg		82.0	68.5 - 131.3
Sodium	133	149.0		mg/Kg		112.0	35.0 - 165.4
Thallium	112	113.8		mg/Kg		101.6	67.9 - 131.3
Vanadium	62.6	64.20		mg/Kg		102.6	59.1 - 141.1
Zinc	158	131.9		mg/Kg		83.5	70.3 - 129.7

Lab Sample ID: LCSSRM 480-630091/2-A
Matrix: Solid
Analysis Batch: 631043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630091

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	2020	2148		mg/Kg		106.4	58.9 - 141.1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-630024/1-A
Matrix: Solid
Analysis Batch: 630172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		06/15/22 09:21	06/15/22 11:42	1

Lab Sample ID: LCSSRM 480-630024/2-A ^10
Matrix: Solid
Analysis Batch: 630172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630024

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.5	20.05		mg/Kg		97.8	60.0 - 139.5

GC/MS Semi VOA

Prep Batch: 630018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	3550C	
480-198998-2	SS-2	Total/NA	Solid	3550C	
480-198998-3	SS-3	Total/NA	Solid	3550C	
480-198998-4	SS-4	Total/NA	Solid	3550C	
MB 480-630018/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-630018/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 630154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	8270D	630018
480-198998-2	SS-2	Total/NA	Solid	8270D	630018
480-198998-3	SS-3	Total/NA	Solid	8270D	630018
480-198998-4	SS-4	Total/NA	Solid	8270D	630018
MB 480-630018/1-A	Method Blank	Total/NA	Solid	8270D	630018
LCS 480-630018/2-A	Lab Control Sample	Total/NA	Solid	8270D	630018

GC Semi VOA

Prep Batch: 630019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	3550C	
480-198998-2	SS-2	Total/NA	Solid	3550C	
480-198998-3	SS-3	Total/NA	Solid	3550C	
480-198998-4	SS-4	Total/NA	Solid	3550C	
MB 480-630019/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-630019/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 630203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	8082A	630019
480-198998-2	SS-2	Total/NA	Solid	8082A	630019
480-198998-3	SS-3	Total/NA	Solid	8082A	630019
480-198998-4	SS-4	Total/NA	Solid	8082A	630019
MB 480-630019/1-A	Method Blank	Total/NA	Solid	8082A	630019
LCS 480-630019/2-A	Lab Control Sample	Total/NA	Solid	8082A	630019

Prep Batch: 630207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	3550C	
480-198998-2	SS-2	Total/NA	Solid	3550C	
480-198998-3	SS-3	Total/NA	Solid	3550C	
480-198998-4	SS-4	Total/NA	Solid	3550C	
MB 480-630207/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-630207/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 630248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	8081B	630207
480-198998-2	SS-2	Total/NA	Solid	8081B	630207
480-198998-3	SS-3	Total/NA	Solid	8081B	630207
480-198998-4	SS-4	Total/NA	Solid	8081B	630207

GC Semi VOA (Continued)

Analysis Batch: 630248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-630207/1-A	Method Blank	Total/NA	Solid	8081B	630207
LCS 480-630207/2-A	Lab Control Sample	Total/NA	Solid	8081B	630207

Prep Batch: 631065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	8151A	
480-198998-2	SS-2	Total/NA	Solid	8151A	
480-198998-3	SS-3	Total/NA	Solid	8151A	
480-198998-4	SS-4	Total/NA	Solid	8151A	
MB 480-631065/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-631065/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-198998-4 MS	SS-4	Total/NA	Solid	8151A	
480-198998-4 MSD	SS-4	Total/NA	Solid	8151A	

Analysis Batch: 631639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	8151A	631065
480-198998-2	SS-2	Total/NA	Solid	8151A	631065
480-198998-3	SS-3	Total/NA	Solid	8151A	631065
480-198998-4	SS-4	Total/NA	Solid	8151A	631065
MB 480-631065/1-A	Method Blank	Total/NA	Solid	8151A	631065
LCS 480-631065/2-A	Lab Control Sample	Total/NA	Solid	8151A	631065
480-198998-4 MS	SS-4	Total/NA	Solid	8151A	631065
480-198998-4 MSD	SS-4	Total/NA	Solid	8151A	631065

LCMS

Prep Batch: 180836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	SHAKE	
480-198998-2	SS-2	Total/NA	Solid	SHAKE	
480-198998-3	SS-3	Total/NA	Solid	SHAKE	
480-198998-4	SS-4	Total/NA	Solid	SHAKE	
MB 200-180836/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-180836/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-198998-2 MS	SS-2	Total/NA	Solid	SHAKE	
480-198998-2 MSD	SS-2	Total/NA	Solid	SHAKE	

Analysis Batch: 180869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	537 (modified)	180836
480-198998-2	SS-2	Total/NA	Solid	537 (modified)	180836
480-198998-3	SS-3	Total/NA	Solid	537 (modified)	180836
480-198998-4	SS-4	Total/NA	Solid	537 (modified)	180836
MB 200-180836/1-A	Method Blank	Total/NA	Solid	537 (modified)	180836
LCS 200-180836/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	180836
480-198998-2 MS	SS-2	Total/NA	Solid	537 (modified)	180836
480-198998-2 MSD	SS-2	Total/NA	Solid	537 (modified)	180836

Metals

Prep Batch: 630024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	7471B	
480-198998-2	SS-2	Total/NA	Solid	7471B	
480-198998-3	SS-3	Total/NA	Solid	7471B	
480-198998-4	SS-4	Total/NA	Solid	7471B	
MB 480-630024/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-630024/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 630091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	3050B	
480-198998-2	SS-2	Total/NA	Solid	3050B	
480-198998-3	SS-3	Total/NA	Solid	3050B	
480-198998-4	SS-4	Total/NA	Solid	3050B	
MB 480-630091/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-630091/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 630172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	7471B	630024
480-198998-2	SS-2	Total/NA	Solid	7471B	630024
480-198998-3	SS-3	Total/NA	Solid	7471B	630024
480-198998-4	SS-4	Total/NA	Solid	7471B	630024
MB 480-630024/1-A	Method Blank	Total/NA	Solid	7471B	630024
LCSSRM 480-630024/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	630024

Analysis Batch: 630391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-630091/1-A	Method Blank	Total/NA	Solid	6010C	630091
LCSSRM 480-630091/2-A	Lab Control Sample	Total/NA	Solid	6010C	630091

Analysis Batch: 630456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	6010C	630091
480-198998-2	SS-2	Total/NA	Solid	6010C	630091
480-198998-3	SS-3	Total/NA	Solid	6010C	630091
480-198998-4	SS-4	Total/NA	Solid	6010C	630091

Analysis Batch: 630680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-4	SS-4	Total/NA	Solid	6010C	630091

Analysis Batch: 631043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-630091/1-A	Method Blank	Total/NA	Solid	6010C	630091
LCSSRM 480-630091/2-A	Lab Control Sample	Total/NA	Solid	6010C	630091

General Chemistry

Analysis Batch: 630026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-1	SS-1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 630026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198998-2	SS-2	Total/NA	Solid	Moisture	
480-198998-3	SS-3	Total/NA	Solid	Moisture	
480-198998-4	SS-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-1
Date Collected: 06/14/22 11:30
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	630026	06/14/22 16:13	JMM	TAL BUF

Client Sample ID: SS-1
Date Collected: 06/14/22 11:30
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-1
Matrix: Solid
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			630018	06/14/22 15:39	SJM	TAL BUF
Total/NA	Analysis	8270D		1	630154	06/16/22 04:48	PJQ	TAL BUF
Total/NA	Prep	3550C			630207	06/15/22 15:40	SJM	TAL BUF
Total/NA	Analysis	8081B		1	630248	06/16/22 14:29	JLS	TAL BUF
Total/NA	Prep	3550C			630019	06/14/22 15:43	SJM	TAL BUF
Total/NA	Analysis	8082A		1	630203	06/15/22 22:09	W1T	TAL BUF
Total/NA	Prep	8151A			631065	06/22/22 09:44	JMP	TAL BUF
Total/NA	Analysis	8151A		1	631639	06/27/22 15:28	MAN	TAL BUF
Total/NA	Prep	SHAKE			180836	06/16/22 08:22	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	180869	06/16/22 17:22	ND	TAL BUR
Total/NA	Prep	3050B			630091	06/15/22 11:09	NVK	TAL BUF
Total/NA	Analysis	6010C		1	630456	06/16/22 17:43	LMH	TAL BUF
Total/NA	Prep	7471B			630024	06/15/22 09:21	NVK	TAL BUF
Total/NA	Analysis	7471B		1	630172	06/15/22 12:05	NVK	TAL BUF

Client Sample ID: SS-2
Date Collected: 06/14/22 11:45
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	630026	06/14/22 16:13	JMM	TAL BUF

Client Sample ID: SS-2
Date Collected: 06/14/22 11:45
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-2
Matrix: Solid
Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			630018	06/14/22 15:39	SJM	TAL BUF
Total/NA	Analysis	8270D		1	630154	06/16/22 05:12	PJQ	TAL BUF
Total/NA	Prep	3550C			630207	06/15/22 15:40	SJM	TAL BUF
Total/NA	Analysis	8081B		5	630248	06/16/22 14:49	JLS	TAL BUF
Total/NA	Prep	3550C			630019	06/14/22 15:43	SJM	TAL BUF
Total/NA	Analysis	8082A		1	630203	06/15/22 22:23	W1T	TAL BUF
Total/NA	Prep	8151A			631065	06/22/22 09:44	JMP	TAL BUF
Total/NA	Analysis	8151A		1	631639	06/27/22 15:46	MAN	TAL BUF
Total/NA	Prep	SHAKE			180836	06/16/22 08:22	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	180869	06/16/22 17:30	ND	TAL BUR

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Client Sample ID: SS-2
Date Collected: 06/14/22 11:45
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-2
Matrix: Solid
Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			630091	06/15/22 11:09	NVK	TAL BUF
Total/NA	Analysis	6010C		1	630456	06/16/22 17:47	LMH	TAL BUF
Total/NA	Prep	7471B			630024	06/15/22 09:21	NVK	TAL BUF
Total/NA	Analysis	7471B		1	630172	06/15/22 12:07	NVK	TAL BUF

Client Sample ID: SS-3
Date Collected: 06/14/22 12:00
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	630026	06/14/22 16:13	JMM	TAL BUF

Client Sample ID: SS-3
Date Collected: 06/14/22 12:00
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-3
Matrix: Solid
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			630018	06/14/22 15:39	SJM	TAL BUF
Total/NA	Analysis	8270D		1	630154	06/16/22 05:36	PJQ	TAL BUF
Total/NA	Prep	3550C			630207	06/15/22 15:40	SJM	TAL BUF
Total/NA	Analysis	8081B		5	630248	06/16/22 15:08	JLS	TAL BUF
Total/NA	Prep	3550C			630019	06/14/22 15:43	SJM	TAL BUF
Total/NA	Analysis	8082A		1	630203	06/15/22 22:36	W1T	TAL BUF
Total/NA	Prep	8151A			631065	06/22/22 09:44	JMP	TAL BUF
Total/NA	Analysis	8151A		1	631639	06/27/22 16:04	MAN	TAL BUF
Total/NA	Prep	SHAKE			180836	06/16/22 08:22	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	180869	06/16/22 17:55	ND	TAL BUR
Total/NA	Prep	3050B			630091	06/15/22 11:09	NVK	TAL BUF
Total/NA	Analysis	6010C		1	630456	06/16/22 18:02	LMH	TAL BUF
Total/NA	Prep	7471B			630024	06/15/22 09:21	NVK	TAL BUF
Total/NA	Analysis	7471B		1	630172	06/15/22 12:08	NVK	TAL BUF

Client Sample ID: SS-4
Date Collected: 06/14/22 12:15
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	630026	06/14/22 16:13	JMM	TAL BUF

Client Sample ID: SS-4
Date Collected: 06/14/22 12:15
Date Received: 06/14/22 12:45

Lab Sample ID: 480-198998-4
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			630018	06/14/22 15:39	SJM	TAL BUF
Total/NA	Analysis	8270D		10	630154	06/16/22 06:01	PJQ	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-4
Lab Sample ID: 480-198998-4
Date Collected: 06/14/22 12:15
Matrix: Solid
Date Received: 06/14/22 12:45
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			630207	06/15/22 15:40	SJM	TAL BUF
Total/NA	Analysis	8081B		50	630248	06/16/22 15:28	JLS	TAL BUF
Total/NA	Prep	3550C			630019	06/14/22 15:43	SJM	TAL BUF
Total/NA	Analysis	8082A		1	630203	06/15/22 22:50	W1T	TAL BUF
Total/NA	Prep	8151A			631065	06/22/22 09:44	JMP	TAL BUF
Total/NA	Analysis	8151A		1	631639	06/27/22 14:51	MAN	TAL BUF
Total/NA	Prep	SHAKE			180836	06/16/22 08:22	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	180869	06/16/22 18:03	ND	TAL BUR
Total/NA	Prep	3050B			630091	06/15/22 11:09	NVK	TAL BUF
Total/NA	Analysis	6010C		1	630456	06/16/22 18:07	LMH	TAL BUF
Total/NA	Prep	3050B			630091	06/15/22 11:09	NVK	TAL BUF
Total/NA	Analysis	6010C		2	630680	06/17/22 14:56	LMH	TAL BUF
Total/NA	Prep	7471B			630024	06/15/22 09:21	NVK	TAL BUF
Total/NA	Analysis	7471B		1	630172	06/15/22 12:09	NVK	TAL BUF

Laboratory References:

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

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-22

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-198998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198998-1	SS-1	Solid	06/14/22 11:30	06/14/22 12:45
480-198998-2	SS-2	Solid	06/14/22 11:45	06/14/22 12:45
480-198998-3	SS-3	Solid	06/14/22 12:00	06/14/22 12:45
480-198998-4	SS-4	Solid	06/14/22 12:15	06/14/22 12:45

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

Chain of Custody Record

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Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-174636-37628.1
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days): Standard			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-713-3937	PO #: T0105-017-010			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: 3077 Union Rd Site - Orchard Park, NY	Project #: 48024263			
Site: 3077 Union Rd	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes)	6010C, 7471B	8081B, 8082A, 8151A, 8270D, Moisture	1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N			
SS-1	6/14/22	11:30	6	Solid			X	X	X	X	2	
SS-2		11:45	6	Solid			X	X	X	X	3	
SS-3		12:00	6	Solid			X	X	X	X	3	
SS-4		12:15	6	Solid			X	X	X	X	3	

480-198998 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDEC EQuIS	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6/14/22 12:45	Company: Bmtlc	Received by:	Date/Time: 6-14-22 12:45	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.8 #1 ice

Ver: 06/08/2021

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

Chain of Custody Record

480-198998 Chain of Custody

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Fischer, Brian J	COC No: 480-73045 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York	Page: Page 1 of 1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 6/27/2022		Job #: 480-198998-1
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email	WO #:		
Project Name: 3077 Union Rd Site - Orchard Park, NY	Project #: 48024263		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SS-1 (480-198998-1)	6/14/22	11:30 Eastern		Solid			X	1	
SS-2 (480-198998-2)	6/14/22	11 45 Eastern		Solid			X	1	
SS-3 (480-198998-3)	6/14/22	12.00 Eastern		Solid			X	1	
SS-4 (480-198998-4)	6/14/22	12:15 Eastern		Solid			X	1	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by		Date.		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 6/14/22 1800	Company: TAB	Received by:	Date/Time: 6/15/22 1030	Company: EA-Buf	
Relinquished by:	Date/Time	Company	Received by:	Date/Time.	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 14JUN22
ACTWGT: 17.05 LB
CAD: 846654/CAFE3512
DIMS: 19x15x10 IN

BILL SENDER

TO SAMPLE MGT.
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA BURLINGTON

570C2/2744/6F4D

FedEx Express

J211020121101uv

TRK# 0201 5754 0122 6417

WED - 15 JUN 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 14JUN22
ACTWGT: 44.60 LB
CAD: 846654/CAFE3512
DIMS: 26x15x14 IN

BILL SENDER

TO SAMPLE MGT.
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA BURLINGTON

FedEx Express

TRK# 0201 5754 0122 6336

WED - 15 JUN 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-198998-1

Login Number: 198998
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

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

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-198998-1

Login Number: 198998
List Number: 2
Creator: Cunningham, Caroline R

List Source: Eurofins Burlington
List Creation: 06/15/22 03:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1979563, -562
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2ºC, 3.3ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-189621-1
Client Project/Site: 3077 Union Rd Site - Orchard Park, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
9/27/2021 2:20:18 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

LINKS

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

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

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

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Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-189621-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-189621-1

Comments
No additional comments.

Receipt
The samples were received on 9/14/2021 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7º C.

Receipt Exceptions

Method 537 (modified): The following sample(s) was received at the laboratory outside the required temperature criteria: 14.0ºC, 9.5ºC.

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-596938 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SS-19 (480-189621-21) and SS-20 (480-189621-22).

Method 8270D: The method blank for preparation batch 480-596875 contained Bis(2-ethylhexyl) phthalate above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: SS-19 (480-189621-21) and SS-20 (480-189621-22).

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-596875 and analytical batch 480-596938 was outside control limits for Benzaldehyde.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: SS-14 (480-189621-16) and SS-15 (480-189621-17). Elevated reporting limits (RL) are provided.

Method 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 480-597248 was outside criteria for the following analyte(s): Bis(2-chloroethoxy)methane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-597248 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane]. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-597248 recovered above the upper control limit for 2,4-Dichlorophenol, 4-Nitrophenol, Dibenz(a,h)anthracene and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TP-12 6in-2ft (480-189621-1), TP-19 1-3ft (480-189621-2), TP-28 4-5ft (480-189621-3), TP-32 0-6in (480-189621-4), BD-1 (480-189621-5), BD-2 (480-189621-6), SS-5 (480-189621-7), SS-6 (480-189621-8), SS-7 (480-189621-9), SS-8 (480-189621-10), SS-9 (480-189621-11), SS-10 (480-189621-12), SS-11 (480-189621-13), SS-12 (480-189621-14), SS-13 (480-189621-15), SS-14 (480-189621-16), SS-15 (480-189621-17), SS-16 (480-189621-18), SS-17 (480-189621-19) and SS-18 (480-189621-20).

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-597013 and analytical batch 480-597248 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: TP-12 6in-2ft (480-189621-1), TP-19 1-3ft (480-189621-2), TP-28 4-5ft (480-189621-3), TP-32 0-6in (480-189621-4), BD-1 (480-189621-5), BD-2 (480-189621-6), SS-5 (480-189621-7), SS-6 (480-189621-8), SS-7 (480-189621-9), SS-8 (480-189621-10), SS-9 (480-189621-11), SS-10 (480-189621-12), SS-11 (480-189621-13), SS-12 (480-189621-14), SS-13 (480-189621-15), SS-14 (480-189621-16), SS-15 (480-189621-17), SS-16 (480-189621-18), SS-17 (480-189621-19) and SS-18 (480-189621-20). Therefore, the data has been reported.

Job ID: 480-189621-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

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

GC Semi VOA
Method 8082A: The continuing calibration verification (CCV) associated with batch 480-596747 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SS-18 (480-189621-20), SS-19 (480-189621-21) and SS-20 (480-189621-22).

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-597134 and analytical batch 480-597313 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. TP-12 6in-2ft (480-189621-1)

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-597134 and analytical batch 480-597313 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected. TP-12 6in-2ft (480-189621-1)

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for Methoxychlor for the following samples: BD-2 (480-189621-6) and SS-14 (480-189621-16). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081B: For method 8081, the recovery of the one surrogate in samples SS-18 (480-189621-20) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

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

Metals
Method 6010C: The low level continuing calibration verification (CCVL 480-596958/40) recovered above the upper control limit for Total Chromium. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples SS-19 (480-189621-21) and SS-20 (480-189621-22) was not performed.

Method 6010C: The serial dilution (480-189621-C-1-A SD ^5) associated with batch 480-597174, exhibited results outside the quality control limits for Total Calcium and Iron. However, the post digestion spike (PDS) was compliant, therefore no corrective action was necessary.

Method 6010C: The recovery of post spike, (480-189621-C-1-A PDS), associated with batch 480-597174, exhibited results outside quality control limits for Total Aluminum and Manganese. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

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

LCMS
Method 537 (modified): The method blank for preparation batch 200-171603 and analytical batch 200-171658 contained Perfluorobutanesulfonic acid (PFBS), Perfluorohexanesulfonic acid (PFHxS), Perfluorooctanesulfonic acid (PFOS), Perfluorodecanoic acid (PFDA), Perfluorodecanesulfonic acid (PFDS), Perfluorooctanesulfonamide (PFOSA), N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) and N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recoveries of 13C2 PFUnA, d3-NMeFOSAA and d5-NEtFOSAA associated with the following sample is below the method recommended limit: TP-12 6in-2ft (480-189621-1). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery of M2-8:2 FTS is above the method recommended limit for the following sample: SS-14 (480-189621-16). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Job ID: 480-189621-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 537 (modified): The Isotope Dilution Analyte (IDA) recoveries of 13C2 PFTeDA associated with the following samples is below the method recommended limit: SS-18 (480-189621-20) and SS-19 (480-189621-21). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

Method 537 (modified): The matrix spike (MS) recoveries of Perfluorotetradecanoic acid (PFTeA) for preparation batch 200-171603 and analytical batch 200-171658 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with samples TP-12 6in-2ft (480-189621-1), TP-32 0-6in (480-189621-4), BD-1 (480-189621-5), BD-2 (480-189621-6), SS-5 (480-189621-7), SS-6 (480-189621-8), SS-7 (480-189621-9), SS-8 (480-189621-10), SS-9 (480-189621-11), SS-12 (480-189621-14), SS-13 (480-189621-15), SS-14 (480-189621-16), SS-18 (480-189621-20), SS-19 (480-189621-21), (480-189621-A-20-B MS) and (480-189621-A-20-C MSD) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

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

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: SS-5 (480-189621-7), SS-6 (480-189621-8), SS-7 (480-189621-9), SS-8 (480-189621-10), SS-9 (480-189621-11), SS-12 (480-189621-14), SS-14 (480-189621-16), SS-15 (480-189621-17) and SS-18 (480-189621-20).

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-12 6in-2ft
Lab Sample ID: 480-189621-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endrin ketone	0.91	J F1	2.0	0.48	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.030	J	0.23	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.019	J B	0.23	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.018	J I B	0.23	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.032	J I B	0.23	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	18100		12.1	5.3	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.3	J F1	18.2	0.48	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.7		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	42.9	F1	0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.85		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	61800	B	60.5	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	29.1	F1	0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	14.3		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	25.3		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	25200		12.1	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	4.4		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7910	F1	24.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	220	B F2	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	50.2		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	3410	F1	36.3	24.2	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.7	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Sodium	94.4	J	169	15.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	27.9	F1	0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	43.6		2.4	0.77	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.030	F2	0.030	0.0068	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-19 1-3ft
Lab Sample ID: 480-189621-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.8	J	26	4.4	ug/Kg	1	☼	8260C	Total/NA
Endrin ketone	0.82	J	1.9	0.47	ug/Kg	1	☼	8081B	Total/NA
Aluminum	17300		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.4	J	17.1	0.46	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.1	J	2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	48.6		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.85		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.19	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	22900	B	57.0	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	26.4		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.4		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	53.6		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	26200		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	4.3		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7370		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	371	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	48.1		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2640		34.2	22.8	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.1	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Sodium	86.5	J	160	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.0		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-19 1-3ft (Continued)
Lab Sample ID: 480-189621-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	49.1		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.014	J	0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-28 4-5ft
Lab Sample ID: 480-189621-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
beta-BHC	0.38	J B	1.8	0.33	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	0.62	J	1.8	0.45	ug/Kg	1	☼	8081B	Total/NA
Aluminum	19900		11.2	4.9	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.2	J	16.8	0.45	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.8		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	54.4		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.97		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24		0.22	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	15700	B	55.9	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	29.1		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	17.0		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	27.5		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	27100		11.2	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	6.9		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6330		22.4	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	301	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	52.8		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2620		33.6	22.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.3	J	4.5	0.45	mg/Kg	1	☼	6010C	Total/NA
Sodium	74.8	J	157	14.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	30.4		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	59.2		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.028		0.027	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-32 0-6in
Lab Sample ID: 480-189621-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
beta-BHC	0.55	J B	1.9	0.34	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	2.5		1.9	0.39	ug/Kg	1	☼	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.049	J	0.23	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.062	J	0.23	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.063	J	0.23	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.23		0.23	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.047	J	0.23	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.015	J B	0.23	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.022	J B	0.23	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.23	I B	0.23	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	21100		11.9	5.2	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.4	J	17.9	0.48	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.4		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	71.8		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.83		0.24	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.32		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	1870	B	59.6	3.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	28.3		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-32 0-6in (Continued)
Lab Sample ID: 480-189621-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	21.8		0.60	0.060	mg/Kg	1	☼	6010C	Total/NA
Copper	15.0		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	29500		11.9	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	16.9		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4130		23.9	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	1370	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	26.0		6.0	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	2830		35.8	23.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.0	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Sodium	141	J	167	15.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	38.4		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	72.2		2.4	0.76	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.060		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BD-1
Lab Sample ID: 480-189621-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	22	3.7	ug/Kg	1	☼	8260C	Total/NA
Endrin ketone	0.88	J	2.0	0.48	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.019	J I B	0.24	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19400		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.93	J	17.1	0.46	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.2	J	2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	56.7		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.89		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.19	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	31500	B	56.9	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	28.9		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	13.6		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	27.7		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	23300		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	4.1		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7540		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	358	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	48.2		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	3230		34.2	22.8	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.6	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Sodium	105	J	159	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	28.4		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	48.6		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.025		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BD-2
Lab Sample ID: 480-189621-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	220		190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		190	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	240		190	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	140	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	89	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	190		190	43	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	410		190	20	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BD-2 (Continued)
Lab Sample ID: 480-189621-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	130	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	180	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	420		190	23	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	1.1	J	1.9	0.40	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	3.2		1.9	0.39	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.025	J I	0.22	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.055	J	0.22	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.011	J I B	0.22	0.010	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.017	J I B	0.22	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.068	J I B	0.22	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	18500		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.3	J	17.1	0.46	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.8		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	58.2		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.79		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.27		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	1440	B	57.1	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	26.2		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	11.9		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	11.8		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	26200		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	12.4		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3500		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	749	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	21.4		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2380		34.3	22.8	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.0	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Sodium	142	J	160	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	35.3		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	60.8		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.056		0.027	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-5
Lab Sample ID: 480-189621-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	120	J	200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	200		200	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	100	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	55	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	130	J	200	45	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	320		200	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	24	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	94	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	210		200	24	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	1.8	J	2.0	0.42	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	1.6	J	2.0	0.51	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	1.8	J	2.0	0.41	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.14	J I	0.24	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.058	J	0.24	0.024	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-5 (Continued)
Lab Sample ID: 480-189621-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.14	J	0.24	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.086	J	0.24	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.093	J B	0.24	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.11	J	0.24	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.058	J	0.24	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.053	J	0.24	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.051	J	0.24	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.017	J B	0.24	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.039	J I B	0.24	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.88	I B	0.24	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.017	J B	0.24	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	8300		12.2	5.4	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.8	J	18.3	0.49	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.0		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	46.2		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.51		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.47		0.24	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	43900	B	61.1	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	33.5		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.7		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	30.9		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	21600		12.2	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	41.7		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5120		24.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	628	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	31.2		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1670		36.6	24.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.5	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Sodium	104	J	171	15.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.7		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	135		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.083		0.027	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-6
Lab Sample ID: 480-189621-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	53	J	240	25	ug/Kg	1	☼	8270D	Total/NA
Pyrene	34	J	240	28	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	1.6	J	2.3	0.49	ug/Kg	1	☼	8081B	Total/NA
beta-BHC	0.99	J B	2.3	0.42	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	1.5	J	2.3	0.48	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.41	J	0.71	0.23	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.13	J	0.29	0.056	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.17	J	0.29	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.13	J	0.29	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.48		0.29	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.14	J	0.29	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.038	J B	0.29	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.074	J	0.29	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.024	J	0.29	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.023	J B	0.29	0.013	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-6 (Continued)
Lab Sample ID: 480-189621-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.030	J B	0.29	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.58	I B	0.29	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	22700		14.5	6.4	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.7	J	21.7	0.58	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.6		2.9	0.58	mg/Kg	1	☼	6010C	Total/NA
Barium	88.9		0.72	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.0		0.29	0.041	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.53		0.29	0.043	mg/Kg	1	☼	6010C	Total/NA
Calcium	2210	B	72.5	4.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	29.3		0.72	0.29	mg/Kg	1	☼	6010C	Total/NA
Cobalt	11.8		0.72	0.072	mg/Kg	1	☼	6010C	Total/NA
Copper	18.3		1.4	0.30	mg/Kg	1	☼	6010C	Total/NA
Iron	30100		14.5	5.1	mg/Kg	1	☼	6010C	Total/NA
Lead	30.8		1.4	0.35	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3910		29.0	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	639	B	0.29	0.046	mg/Kg	1	☼	6010C	Total/NA
Nickel	28.8		7.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Potassium	3090		43.5	29.0	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.0	J	5.8	0.58	mg/Kg	1	☼	6010C	Total/NA
Sodium	76.3	J	203	18.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	42.8		0.72	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	124		2.9	0.93	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.071		0.037	0.0085	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-7
Lab Sample ID: 480-189621-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	40	J	250	26	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDT	1.8	J	2.4	0.56	ug/Kg	1	☼	8081B	Total/NA
beta-BHC	1.1	J B	2.4	0.43	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	2.2	J	2.4	0.49	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.16	J I	0.28	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.063	J	0.28	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.21	J	0.28	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.10	J	0.28	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.056	J B	0.28	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.075	J	0.28	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.029	J	0.28	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.017	J B	0.28	0.013	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.028	J B	0.28	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.48	I B	0.28	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19000		13.9	6.1	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.4	J	20.9	0.56	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.2		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	60.6		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.72		0.28	0.039	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.42		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Calcium	2840	B	69.7	4.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	27.4		0.70	0.28	mg/Kg	1	☼	6010C	Total/NA
Cobalt	12.3		0.70	0.070	mg/Kg	1	☼	6010C	Total/NA
Copper	18.2		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-7 (Continued)
Lab Sample ID: 480-189621-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	26000		13.9	4.9	mg/Kg	1	☼	6010C	Total/NA
Lead	34.7		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4090		27.9	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	645	B	0.28	0.045	mg/Kg	1	☼	6010C	Total/NA
Nickel	26.9		7.0	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	2270		41.8	27.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.6	J	5.6	0.56	mg/Kg	1	☼	6010C	Total/NA
Sodium	71.5	J	195	18.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	35.4		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	93.1		2.8	0.89	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.063		0.043	0.0099	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-8
Lab Sample ID: 480-189621-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	60	J	220	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	110	J	220	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	78	J	220	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	33	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	150	J	220	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	65	J	220	27	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	57	J	220	32	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120	J	220	26	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	3.7		2.2	0.46	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	2.8		2.2	0.51	ug/Kg	1	☼	8081B	Total/NA
beta-BHC	1.3	J B	2.2	0.40	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	2.0	J	2.2	0.45	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.22	J	0.64	0.20	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.068	J	0.25	0.050	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.13	J	0.25	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.11	J	0.25	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.33		0.25	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.16	J	0.25	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.074	J B	0.25	0.015	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.091	J	0.25	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.033	J	0.25	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.036	J	0.25	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.026	J B	0.25	0.012	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.034	J B	0.25	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.64	I B	0.25	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	20200		13.8	6.1	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.2	J	20.7	0.55	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.8		2.8	0.55	mg/Kg	1	☼	6010C	Total/NA
Barium	72.5		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.76		0.28	0.039	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.63		0.28	0.041	mg/Kg	1	☼	6010C	Total/NA
Calcium	1430	B	68.8	4.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	28.6		0.69	0.28	mg/Kg	1	☼	6010C	Total/NA
Cobalt	16.9		0.69	0.069	mg/Kg	1	☼	6010C	Total/NA
Copper	15.5		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Iron	24700		13.8	4.8	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-8 (Continued)
Lab Sample ID: 480-189621-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	56.5		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3600		27.5	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	1380	B	0.28	0.044	mg/Kg	1	☼	6010C	Total/NA
Nickel	25.9		6.9	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	2350		41.3	27.5	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.7	J	5.5	0.55	mg/Kg	1	☼	6010C	Total/NA
Sodium	60.7	J	193	17.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	37.9		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	123		2.8	0.88	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.074		0.032	0.0073	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-9
Lab Sample ID: 480-189621-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	100	J	250	25	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110	J	250	37	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	160	J	250	40	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130	J	250	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	60	J	250	32	ug/Kg	1	☼	8270D	Total/NA
Chrysene	130	J	250	56	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	260		250	27	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	120	J	250	31	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	86	J	250	37	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190	J	250	30	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	5.4		2.5	0.53	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	3.6		2.5	0.59	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	1.3	J	2.5	0.64	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	2.3	J	2.5	0.51	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.28	J	0.73	0.24	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.073	J	0.29	0.057	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.14	J I	0.29	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.095	J	0.29	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.25	J	0.29	0.037	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.15	J	0.29	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.11	J B	0.29	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.17	J	0.29	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.054	J	0.29	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.054	J	0.29	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.035	J B	0.29	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.027	J B	0.29	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.77	I B	0.29	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	22400		15.9	7.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.6	J	23.8	0.64	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.2		3.2	0.64	mg/Kg	1	☼	6010C	Total/NA
Barium	98.3		0.79	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.1		0.32	0.044	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.1		0.32	0.048	mg/Kg	1	☼	6010C	Total/NA
Calcium	3220	B	79.4	5.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	31.9		0.79	0.32	mg/Kg	1	☼	6010C	Total/NA
Cobalt	42.1		0.79	0.079	mg/Kg	1	☼	6010C	Total/NA
Copper	20.3		1.6	0.33	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-9 (Continued) — Lab Sample ID: 480-189621-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	27800		15.9	5.6	mg/Kg	1	☼	6010C	Total/NA
Lead	86.4		1.6	0.38	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4080		31.8	1.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	1240	B	0.32	0.051	mg/Kg	1	☼	6010C	Total/NA
Nickel	39.2		7.9	0.37	mg/Kg	1	☼	6010C	Total/NA
Potassium	3080		47.6	31.8	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.0	J	6.4	0.64	mg/Kg	1	☼	6010C	Total/NA
Sodium	88.8	J	222	20.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	41.1		0.79	0.17	mg/Kg	1	☼	6010C	Total/NA
Zinc	165		3.2	1.0	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.12		0.047	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-10 — Lab Sample ID: 480-189621-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	64	J	260	41	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	52	J	260	27	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	110	J	260	27	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	51	J	260	32	ug/Kg	1	☼	8270D	Total/NA
Pyrene	71	J	260	30	ug/Kg	1	☼	8270D	Total/NA
Aluminum	23300		15.3	6.7	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.5	J	22.9	0.61	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.2		3.1	0.61	mg/Kg	1	☼	6010C	Total/NA
Barium	92.0		0.76	0.17	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.1		0.31	0.043	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.69		0.31	0.046	mg/Kg	1	☼	6010C	Total/NA
Calcium	2580	B	76.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	30.7		0.76	0.31	mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.3		0.76	0.076	mg/Kg	1	☼	6010C	Total/NA
Copper	18.7		1.5	0.32	mg/Kg	1	☼	6010C	Total/NA
Iron	31300		15.3	5.3	mg/Kg	1	☼	6010C	Total/NA
Lead	52.6		1.5	0.37	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3910		30.6	1.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	1080	B	0.31	0.049	mg/Kg	1	☼	6010C	Total/NA
Nickel	29.9		7.6	0.35	mg/Kg	1	☼	6010C	Total/NA
Potassium	3240		45.8	30.6	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.1	J	6.1	0.61	mg/Kg	1	☼	6010C	Total/NA
Sodium	88.1	J	214	19.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	46.6		0.76	0.17	mg/Kg	1	☼	6010C	Total/NA
Zinc	139		3.1	0.98	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.087		0.031	0.0072	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-11 — Lab Sample ID: 480-189621-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	36	J	250	25	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	37	J	250	37	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	70	J	250	39	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	58	J	250	26	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120	J	250	26	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	51	J	250	31	ug/Kg	1	☼	8270D	Total/NA
Pyrene	74	J	250	29	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-11 (Continued)
Lab Sample ID: 480-189621-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	22400		14.0	6.2	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.6	J	21.0	0.56	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.6		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	70.1		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.77		0.28	0.039	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.44		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Calcium	1330	B	70.0	4.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	31.7		0.70	0.28	mg/Kg	1	☼	6010C	Total/NA
Cobalt	12.4		0.70	0.070	mg/Kg	1	☼	6010C	Total/NA
Copper	16.3		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Iron	29800		14.0	4.9	mg/Kg	1	☼	6010C	Total/NA
Lead	30.5		1.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4510		28.0	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	621	B	0.28	0.045	mg/Kg	1	☼	6010C	Total/NA
Nickel	28.4		7.0	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	3080		42.0	28.0	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.6	J	5.6	0.56	mg/Kg	1	☼	6010C	Total/NA
Sodium	70.8	J	196	18.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	41.6		0.70	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	102		2.8	0.90	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.067		0.028	0.0065	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-12
Lab Sample ID: 480-189621-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	69	J	240	38	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	61	J	240	26	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120	J	240	26	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	54	J	240	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	75	J	240	28	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDT	2.3	J	2.4	0.55	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	1.0	J	2.4	0.61	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	0.86	J	2.4	0.58	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	2.3	J	2.4	0.48	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.13	J	0.29	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.085	J	0.29	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.43		0.29	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.19	J	0.29	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.076	J B	0.29	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.086	J	0.29	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.030	J	0.29	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.030	J	0.29	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.032	J B	0.29	0.013	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.030	J B	0.29	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.68	I B	0.29	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19800		14.9	6.6	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.1	J	22.3	0.60	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.3		3.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Barium	73.1		0.74	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.87		0.30	0.042	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.66		0.30	0.045	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-12 (Continued)
Lab Sample ID: 480-189621-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2580	B	74.4	4.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	26.7		0.74	0.30	mg/Kg	1	☼	6010C	Total/NA
Cobalt	10.6		0.74	0.074	mg/Kg	1	☼	6010C	Total/NA
Copper	20.9		1.5	0.31	mg/Kg	1	☼	6010C	Total/NA
Iron	26400		14.9	5.2	mg/Kg	1	☼	6010C	Total/NA
Lead	42.8		1.5	0.36	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3330		29.8	1.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	556	B	0.30	0.048	mg/Kg	1	☼	6010C	Total/NA
Nickel	26.5		7.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Potassium	3060		44.7	29.8	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.8	J	6.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Sodium	78.1	J	208	19.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	41.0		0.74	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	125		3.0	0.95	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.080		0.036	0.0083	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-13
Lab Sample ID: 480-189621-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	45	J	250	27	ug/Kg	1	☼	8270D	Total/NA
Endrin ketone	0.95	J	2.5	0.61	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	1.8	J	2.5	0.50	ug/Kg	1	☼	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.069	J	0.30	0.058	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.12	J	0.30	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.10	J	0.30	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.43		0.30	0.037	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.12	J	0.30	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.032	J B	0.30	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.044	J	0.30	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.026	J B	0.30	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.035	J B	0.30	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.48	I B	0.30	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	22100		14.4	6.4	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.8	J	21.7	0.58	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.7		2.9	0.58	mg/Kg	1	☼	6010C	Total/NA
Barium	81.2		0.72	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.94		0.29	0.040	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.53		0.29	0.043	mg/Kg	1	☼	6010C	Total/NA
Calcium	2170	B	72.2	4.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	30.8		0.72	0.29	mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.2		0.72	0.072	mg/Kg	1	☼	6010C	Total/NA
Copper	20.1		1.4	0.30	mg/Kg	1	☼	6010C	Total/NA
Iron	31400		14.4	5.1	mg/Kg	1	☼	6010C	Total/NA
Lead	36.1		1.4	0.35	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4530		28.9	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	860	B	0.29	0.046	mg/Kg	1	☼	6010C	Total/NA
Nickel	31.8		7.2	0.33	mg/Kg	1	☼	6010C	Total/NA
Potassium	2740		43.3	28.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.6	J	5.8	0.58	mg/Kg	1	☼	6010C	Total/NA
Sodium	91.1	J	202	18.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	41.3		0.72	0.16	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-13 (Continued)
Lab Sample ID: 480-189621-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	107		2.9	0.92	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.082		0.034	0.0078	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-14
Lab Sample ID: 480-189621-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	190	J	1300	140	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	350	J	1300	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	200	J	1300	150	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDE	4.1		2.5	0.53	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	11		2.5	0.59	ug/Kg	1	☼	8081B	Total/NA
Endrin	0.78	J	2.5	0.50	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	2.0	J	2.5	0.65	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	2.0	J	2.5	0.62	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	3.0		2.5	0.52	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.29	J	0.76	0.24	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.081	J	0.30	0.059	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.12	J I	0.30	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.093	J	0.30	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.17	J	0.30	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.13	J	0.30	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.11	J B	0.30	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.16	J	0.30	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.065	J	0.30	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.048	J	0.30	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.038	J	0.30	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.029	J B	0.30	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.025	J B	0.30	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.69	I B	0.30	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.089	J B	3.0	0.070	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19700		15.9	7.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.86	J	23.9	0.64	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.7		3.2	0.64	mg/Kg	1	☼	6010C	Total/NA
Barium	48.0		0.80	0.18	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.55		0.32	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.47		0.32	0.048	mg/Kg	1	☼	6010C	Total/NA
Calcium	832	B	79.7	5.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	27.6		0.80	0.32	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.2		0.80	0.080	mg/Kg	1	☼	6010C	Total/NA
Copper	16.8		1.6	0.33	mg/Kg	1	☼	6010C	Total/NA
Iron	24900		15.9	5.6	mg/Kg	1	☼	6010C	Total/NA
Lead	145		1.6	0.38	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3560		31.9	1.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	206	B	0.32	0.051	mg/Kg	1	☼	6010C	Total/NA
Nickel	24.4		8.0	0.37	mg/Kg	1	☼	6010C	Total/NA
Potassium	2260		47.8	31.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.5	J	6.4	0.64	mg/Kg	1	☼	6010C	Total/NA
Sodium	64.8	J	223	20.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	38.5		0.80	0.18	mg/Kg	1	☼	6010C	Total/NA
Zinc	106		3.2	1.0	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.090		0.036	0.0082	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-15
Lab Sample ID: 480-189621-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	180	J	1200	120	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	330	J	1200	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	1200	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	200	J	1200	140	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDE	3.6		2.3	0.48	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	5.0		2.3	0.54	ug/Kg	1	☼	8081B	Total/NA
beta-BHC	1.3	J B	2.3	0.41	ug/Kg	1	☼	8081B	Total/NA
Endrin	0.47	J	2.3	0.45	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	1.9	J	2.3	0.59	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	1.2	J	2.3	0.56	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane)	0.79	J	2.3	0.42	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	1.1		0.67	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.29		0.27	0.052	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.34		0.27	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.42		0.27	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.57		0.27	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.28		0.27	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.14	J B	0.27	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.18	J	0.27	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.066	J	0.27	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.065	J	0.27	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.035	J	0.27	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.078	J B	0.27	0.012	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.050	J B	0.27	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.4	B	0.27	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.095	J B	2.7	0.061	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19700		14.3	6.3	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.4	J	21.4	0.57	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.4		2.9	0.57	mg/Kg	1	☼	6010C	Total/NA
Barium	47.1		0.71	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.41		0.29	0.040	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.49		0.29	0.043	mg/Kg	1	☼	6010C	Total/NA
Calcium	166	B	71.4	4.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	26.4		0.71	0.29	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.9		0.71	0.071	mg/Kg	1	☼	6010C	Total/NA
Copper	16.5		1.4	0.30	mg/Kg	1	☼	6010C	Total/NA
Iron	24600		14.3	5.0	mg/Kg	1	☼	6010C	Total/NA
Lead	64.2		1.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2880		28.6	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	137	B	0.29	0.046	mg/Kg	1	☼	6010C	Total/NA
Nickel	21.3		7.1	0.33	mg/Kg	1	☼	6010C	Total/NA
Potassium	1750		42.9	28.6	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.1	J	5.7	0.57	mg/Kg	1	☼	6010C	Total/NA
Sodium	52.8	J	200	18.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	43.5		0.71	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	106		2.9	0.91	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.11		0.035	0.0080	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-16
Lab Sample ID: 480-189621-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	38	J	230	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	64	J	230	37	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	57	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	95	J	230	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	49	J	230	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	75	J	230	27	ug/Kg	1	☼	8270D	Total/NA
Aluminum	18700		13.8	6.1	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.5	J	20.7	0.55	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.4		2.8	0.55	mg/Kg	1	☼	6010C	Total/NA
Barium	59.6		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.74		0.28	0.039	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.49		0.28	0.041	mg/Kg	1	☼	6010C	Total/NA
Calcium	2240	B	68.9	4.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	25.6		0.69	0.28	mg/Kg	1	☼	6010C	Total/NA
Cobalt	12.4		0.69	0.069	mg/Kg	1	☼	6010C	Total/NA
Copper	21.0		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Iron	24200		13.8	4.8	mg/Kg	1	☼	6010C	Total/NA
Lead	38.6		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3550		27.6	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	472	B	0.28	0.044	mg/Kg	1	☼	6010C	Total/NA
Nickel	26.9		6.9	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	2720		41.4	27.6	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.2	J	5.5	0.55	mg/Kg	1	☼	6010C	Total/NA
Sodium	68.4	J	193	17.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	36.9		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	105		2.8	0.88	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.074		0.039	0.0091	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-17
Lab Sample ID: 480-189621-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	65	J	240	36	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	120	J	240	39	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	82	J	240	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	71	J	240	55	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	150	J	240	26	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	76	J	240	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120	J	240	29	ug/Kg	1	☼	8270D	Total/NA
Aluminum	19300		14.7	6.4	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.5	J	22.0	0.59	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.4		2.9	0.59	mg/Kg	1	☼	6010C	Total/NA
Barium	64.2		0.73	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.66		0.29	0.041	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.45		0.29	0.044	mg/Kg	1	☼	6010C	Total/NA
Calcium	2830	B	73.3	4.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	27.2		0.73	0.29	mg/Kg	1	☼	6010C	Total/NA
Cobalt	12.6		0.73	0.073	mg/Kg	1	☼	6010C	Total/NA
Copper	17.1		1.5	0.31	mg/Kg	1	☼	6010C	Total/NA
Iron	25400		14.7	5.1	mg/Kg	1	☼	6010C	Total/NA
Lead	41.1		1.5	0.35	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3710		29.3	1.4	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-17 (Continued) — Lab Sample ID: 480-189621-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	768	B	0.29	0.047	mg/Kg	1	☼	6010C	Total/NA
Nickel	24.1		7.3	0.34	mg/Kg	1	☼	6010C	Total/NA
Potassium	2690		44.0	29.3	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.4	J	5.9	0.59	mg/Kg	1	☼	6010C	Total/NA
Sodium	63.5	J	205	19.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	36.0		0.73	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	101		2.9	0.94	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.093		0.033	0.0075	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-18 — Lab Sample ID: 480-189621-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	36	J	210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	69	J	210	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	45	J	210	23	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	110	J	210	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	41	J	210	26	ug/Kg	1	☼	8270D	Total/NA
Pyrene	73	J	210	25	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDD	0.73	J	2.1	0.42	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	2.1		2.1	0.50	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	1.8	J	2.1	0.44	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.042	J	0.25	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.054	J	0.25	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.029	J	0.25	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.13	J I B	0.25	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	18100		12.8	5.6	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.2	J	19.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.1		2.6	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	73.1		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.84		0.26	0.036	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.50		0.26	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	3520	B	63.8	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	25.3		0.64	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.3		0.64	0.064	mg/Kg	1	☼	6010C	Total/NA
Copper	22.0		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	27000		12.8	4.5	mg/Kg	1	☼	6010C	Total/NA
Lead	54.1		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3460		25.5	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	666	B	0.26	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	28.2		6.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2630		38.3	25.5	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.8	J	5.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Sodium	75.5	J	179	16.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	35.7		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	109		2.6	0.82	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.076		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-19 — Lab Sample ID: 480-189621-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.065	J	0.30	0.059	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.094	J	0.30	0.033	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-19 (Continued)
Lab Sample ID: 480-189621-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.067	J	0.30	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.41		0.30	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.086	J	0.30	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.023	J B	0.30	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.030	J I	0.30	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.016	J I B	0.30	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.032	J I B	0.30	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.41	I B	0.30	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	25500	B	14.8	6.5	mg/Kg	1	☼	6010C	Total/NA
Antimony	4.3	J	22.2	0.59	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.6		3.0	0.59	mg/Kg	1	☼	6010C	Total/NA
Barium	97.1		0.74	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.1		0.30	0.041	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.38		0.30	0.044	mg/Kg	1	☼	6010C	Total/NA
Calcium	2630		74.0	4.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	35.0	^+	0.74	0.30	mg/Kg	1	☼	6010C	Total/NA
Cobalt	18.0		0.74	0.074	mg/Kg	1	☼	6010C	Total/NA
Copper	15.3		1.5	0.31	mg/Kg	1	☼	6010C	Total/NA
Iron	35500		14.8	5.2	mg/Kg	1	☼	6010C	Total/NA
Lead	22.0		1.5	0.36	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5320		29.6	1.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	1470	B	0.30	0.047	mg/Kg	1	☼	6010C	Total/NA
Nickel	34.2		7.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Potassium	3350		44.4	29.6	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.9	J	5.9	0.59	mg/Kg	1	☼	6010C	Total/NA
Sodium	91.1	J	207	19.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	46.4		0.74	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	97.8		3.0	0.95	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.098		0.065	0.015	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-20
Lab Sample ID: 480-189621-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	52	J	240	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100	J	240	38	ug/Kg	1	☼	8270D	Total/NA
Chrysene	63	J	240	53	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	110	J	240	25	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	39	J	240	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	84	J	240	28	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	1.7	J	2.4	0.50	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	3.2		2.4	0.55	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	1.3	J	2.4	0.60	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	1.2	J	2.4	0.58	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.22	J	0.70	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.055	J	0.28	0.054	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.11	J	0.28	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.097	J	0.28	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.25	J	0.28	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.15	J	0.28	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.082	J B	0.28	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.10	J	0.28	0.028	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-20 (Continued)
Lab Sample ID: 480-189621-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorododecanoic acid (PFDoA)	0.033	J	0.28	0.029	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.030	J	0.28	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.020	J B	0.28	0.013	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.023	J B	0.28	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.58	B	0.28	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	22100	B	14.7	6.5	mg/Kg	1	☼	6010C	Total/NA
Antimony	3.8	J	22.1	0.59	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.7		2.9	0.59	mg/Kg	1	☼	6010C	Total/NA
Barium	56.0		0.74	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.62		0.29	0.041	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.37		0.29	0.044	mg/Kg	1	☼	6010C	Total/NA
Calcium	1450		73.6	4.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	31.3	^+	0.74	0.29	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.8		0.74	0.074	mg/Kg	1	☼	6010C	Total/NA
Copper	19.7		1.5	0.31	mg/Kg	1	☼	6010C	Total/NA
Iron	26800		14.7	5.2	mg/Kg	1	☼	6010C	Total/NA
Lead	83.6		1.5	0.35	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4100		29.4	1.4	mg/Kg	1	☼	6010C	Total/NA
Manganese	215	B	0.29	0.047	mg/Kg	1	☼	6010C	Total/NA
Nickel	29.0		7.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Potassium	2800		44.2	29.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.5	J	5.9	0.59	mg/Kg	1	☼	6010C	Total/NA
Sodium	56.5	J	206	19.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	43.1		0.74	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	111		2.9	0.94	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.069		0.032	0.0073	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-12 6in-2ft
Date Collected: 09/14/21 09:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-1
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,1,2-Trichloroethane	ND		4.8	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,1-Dichloroethane	ND		4.8	0.59	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,1-Dichloroethene	ND		4.8	0.59	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,2-Dibromoethane	ND		4.8	0.62	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,2-Dichlorobenzene	ND		4.8	0.38	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
1,4-Dichlorobenzene	ND		4.8	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Acetone	ND		24	4.1	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Benzene	ND		4.8	0.24	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Bromodichloromethane	ND		4.8	0.65	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Carbon tetrachloride	ND		4.8	0.47	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Chlorobenzene	ND		4.8	0.64	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Chloroform	ND		4.8	0.30	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
cis-1,2-Dichloroethene	ND		4.8	0.62	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Cyclohexane	ND		4.8	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Dibromochloromethane	ND		4.8	0.62	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Dichlorodifluoromethane	ND		4.8	0.40	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Isopropylbenzene	ND		4.8	0.73	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Methylene Chloride	ND		4.8	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Styrene	ND		4.8	0.24	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Tetrachloroethene	ND		4.8	0.65	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Toluene	ND		4.8	0.36	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
trans-1,2-Dichloroethene	ND		4.8	0.50	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Trichloroethene	ND		4.8	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Trichlorofluoromethane	ND		4.8	0.46	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Vinyl chloride	ND		4.8	0.59	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1
Xylenes, Total	ND		9.6	0.81	ug/Kg	☼	09/15/21 18:03	09/17/21 00:40	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-12 6in-2ft
Date Collected: 09/14/21 09:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-1
Matrix: Solid
Percent Solids: 83.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*	*09/15/21 18:03*	*09/17/21 00:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*09/15/21 18:03*	*09/17/21 00:40*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*09/15/21 18:03*	*09/17/21 00:40*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*09/15/21 18:03*	*09/17/21 00:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	65	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2,4-Dinitrophenol	ND		2000	920	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2-Methylphenol	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4-Methylphenol	ND		390	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Acenaphthene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Acenaphthylene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Acetophenone	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Anthracene	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Atrazine	ND		200	70	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Benzaldehyde	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Biphenyl	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Caprolactam	ND		200	60	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Carbazole	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-12 6in-2ft
Lab Sample ID: 480-189621-1
Date Collected: 09/14/21 09:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		200	45	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Dibenzofuran	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Fluoranthene	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Fluorene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Hexachloroethane	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Isophorone	ND		200	42	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Naphthalene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Nitrobenzene	ND		200	22	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Phenanthrene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Phenol	ND		200	31	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1
Pyrene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*54 - 120*	*09/20/21 07:47*	*09/22/21 01:51*	*1*
2-Fluorobiphenyl	*98*		*60 - 120*	*09/20/21 07:47*	*09/22/21 01:51*	*1*
2-Fluorophenol	*76*		*52 - 120*	*09/20/21 07:47*	*09/22/21 01:51*	*1*
Nitrobenzene-d5	*84*		*53 - 120*	*09/20/21 07:47*	*09/22/21 01:51*	*1*
Phenol-d5	*79*		*54 - 120*	*09/20/21 07:47*	*09/22/21 01:51*	*1*
p-Terphenyl-d14	*104*		*79 - 130*	*09/20/21 07:47*	*09/22/21 01:51*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
4,4'-DDT	ND	F1	2.0	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Aldrin	ND	F2	2.0	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
cis-Chlordane	ND		2.0	0.98	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Endrin	ND		2.0	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Endrin ketone	**0.91**	**J F1**	2.0	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-12 6in-2ft
Lab Sample ID: 480-189621-1
Date Collected: 09/14/21 09:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 83.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Methoxychlor	ND	F1	2.0	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
Toxaphene	ND		20	11	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1
trans-Chlordane	ND		2.0	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 10:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*45 - 120*	*09/21/21 08:39*	*09/22/21 10:27*	*1*
DCB Decachlorobiphenyl	*95*		*45 - 120*	*09/21/21 08:39*	*09/22/21 10:27*	*1*
Tetrachloro-m-xylene	*95*		*30 - 124*	*09/21/21 08:39*	*09/22/21 10:27*	*1*
Tetrachloro-m-xylene	*91*		*30 - 124*	*09/21/21 08:39*	*09/22/21 10:27*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	09/16/21 14:59	09/17/21 13:25	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	09/16/21 14:59	09/17/21 13:25	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	09/16/21 14:59	09/17/21 13:25	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	09/16/21 14:59	09/17/21 13:25	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	09/16/21 14:59	09/17/21 13:25	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	09/16/21 14:59	09/17/21 13:25	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	09/16/21 14:59	09/17/21 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*139*		*60 - 154*	*09/16/21 14:59*	*09/17/21 13:25*	*1*
Tetrachloro-m-xylene	*130*		*60 - 154*	*09/16/21 14:59*	*09/17/21 13:25*	*1*
DCB Decachlorobiphenyl	*180*	*S1+*	*65 - 174*	*09/16/21 14:59*	*09/17/21 13:25*	*1*
DCB Decachlorobiphenyl	*148*		*65 - 174*	*09/16/21 14:59*	*09/17/21 13:25*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.2	ug/Kg	☼	09/21/21 06:53	09/23/21 16:36	1
2,4-D	ND		19	12	ug/Kg	☼	09/21/21 06:53	09/23/21 16:36	1
Silvex (2,4,5-TP)	ND		19	7.0	ug/Kg	☼	09/21/21 06:53	09/23/21 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*09/21/21 06:53*	*09/23/21 16:36*	*1*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*09/21/21 06:53*	*09/23/21 16:36*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.58	0.19	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluoropentanoic acid (PFPeA)	ND		0.23	0.045	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorohexanoic acid (PFHxA)	ND		0.23	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorooctanoic acid (PFOA)	**0.030**	**J**	0.23	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorononanoic acid (PFNA)	ND		0.23	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorodecanoic acid (PFDA)	ND		0.23	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1

Client Sample ID: TP-12 6in-2ft
Lab Sample ID: 480-189621-1
Date Collected: 09/14/21 09:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 83.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.019**	**J B**	0.23	0.011	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorohexanesulfonic acid (PFHxS)	**0.018**	**J I B**	0.23	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorooctanesulfonic acid (PFOS)	**0.032**	**J I B**	0.23	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.043	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.053	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.3	0.036	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.3	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*55*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C4 PFHpA	*60*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C4 PFOA	*62*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C4 PFOS	*50*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C5 PFNA	*57*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C4 PFBA	*60*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C2 PFHxA	*62*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C2 PFDA	*55*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C2 PFUnA	*49*	**5-*	*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C2 PFDoA	*52*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C8 FOSA	*53*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C5 PFPeA	*64*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C2 PFTeDA	*50*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
d3-NMeFOSAA	*46*	**5-*	*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
d5-NEtFOSAA	*48*	**5-*	*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
M2-6:2 FTS	*57*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
M2-8:2 FTS	*50*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*
13C3 PFBS	*58*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18100**		12.1	5.3	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Antimony	**1.3**	**J F1**	18.2	0.48	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Arsenic	**2.7**		2.4	0.48	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Barium	**42.9**	**F1**	0.61	0.13	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Beryllium	**0.85**		0.24	0.034	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Cadmium	**0.20**	**J**	0.24	0.036	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Calcium	**61800**	**B**	60.5	4.0	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Chromium	**29.1**	**F1**	0.61	0.24	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Cobalt	**14.3**		0.61	0.061	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Copper	**25.3**		1.2	0.25	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Iron	**25200**		12.1	4.2	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-12 6in-2ft
Lab Sample ID: 480-189621-1
Date Collected: 09/14/21 09:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 83.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.4		1.2	0.29	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Magnesium	7910	F1	24.2	1.1	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Manganese	220	B F2	0.24	0.039	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Nickel	50.2		6.1	0.28	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Potassium	3410	F1	36.3	24.2	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Selenium	2.7	J	4.8	0.48	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Silver	ND		0.73	0.24	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Sodium	94.4	J	169	15.7	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Thallium	ND		7.3	0.36	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Vanadium	27.9	F1	0.61	0.13	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1
Zinc	43.6		2.4	0.77	mg/Kg	☼	09/17/21 15:27	09/20/21 23:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	F2	0.030	0.0068	mg/Kg	☼	09/20/21 14:20	09/20/21 15:43	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-19 1-3ft
Date Collected: 09/14/21 11:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-2
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.38	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.85	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,1,2-Trichloroethane	ND		5.2	0.68	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,1-Dichloroethane	ND		5.2	0.64	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,1-Dichloroethene	ND		5.2	0.64	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,2-Dibromoethane	ND		5.2	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,2-Dichlorobenzene	ND		5.2	0.41	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,3-Dichlorobenzene	ND		5.2	0.27	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
1,4-Dichlorobenzene	ND		5.2	0.73	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Acetone	**6.8**	**J**	26	4.4	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Benzene	ND		5.2	0.26	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Bromodichloromethane	ND		5.2	0.70	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Bromomethane	ND		5.2	0.47	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Carbon tetrachloride	ND		5.2	0.51	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Chlorobenzene	ND		5.2	0.69	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Chloroform	ND		5.2	0.32	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Chloromethane	ND		5.2	0.32	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
cis-1,2-Dichloroethene	ND		5.2	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
cis-1,3-Dichloropropene	ND		5.2	0.76	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Cyclohexane	ND		5.2	0.73	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Dibromochloromethane	ND		5.2	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Isopropylbenzene	ND		5.2	0.79	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Methyl acetate	ND		26	3.2	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Methyl tert-butyl ether	ND		5.2	0.52	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Methylcyclohexane	ND		5.2	0.80	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Methylene Chloride	ND		5.2	2.4	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Styrene	ND		5.2	0.26	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Tetrachloroethene	ND		5.2	0.70	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Toluene	ND		5.2	0.40	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Trichloroethene	ND		5.2	1.2	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Trichlorofluoromethane	ND		5.2	0.50	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Vinyl chloride	ND		5.2	0.64	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1
Xylenes, Total	ND		10	0.88	ug/Kg	☼	09/15/21 18:03	09/17/21 01:04	1

Client Sample ID: TP-19 1-3ft
Date Collected: 09/14/21 11:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-2
Matrix: Solid
Percent Solids: 85.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*09/15/21 18:03*	*09/17/21 01:04*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*09/15/21 18:03*	*09/17/21 01:04*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*09/15/21 18:03*	*09/17/21 01:04*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*09/15/21 18:03*	*09/17/21 01:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	64	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2-Chlorophenol	ND		380	36	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2-Methylphenol	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4-Methylphenol	ND		380	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Acenaphthene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Acenaphthylene	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Acetophenone	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Anthracene	ND		200	49	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Atrazine	ND		200	68	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Benzaldehyde	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Biphenyl	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Caprolactam	ND		200	59	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Carbazole	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1

Client Sample ID: TP-19 1-3ft
Date Collected: 09/14/21 11:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-2
Matrix: Solid
Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		200	44	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Dibenzofuran	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Fluoranthene	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Fluorene	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Hexachloroethane	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Isophorone	ND		200	42	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Naphthalene	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Nitrobenzene	ND		200	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Phenanthrene	ND		200	29	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Phenol	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1
Pyrene	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*54 - 120*	*09/20/21 07:47*	*09/22/21 02:15*	*1*
2-Fluorobiphenyl	*88*		*60 - 120*	*09/20/21 07:47*	*09/22/21 02:15*	*1*
2-Fluorophenol	*69*		*52 - 120*	*09/20/21 07:47*	*09/22/21 02:15*	*1*
Nitrobenzene-d5	*78*		*53 - 120*	*09/20/21 07:47*	*09/22/21 02:15*	*1*
Phenol-d5	*71*		*54 - 120*	*09/20/21 07:47*	*09/22/21 02:15*	*1*
p-Terphenyl-d14	*96*		*79 - 130*	*09/20/21 07:47*	*09/22/21 02:15*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
cis-Chlordane	ND		1.9	0.95	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Endrin	ND		1.9	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Endrin ketone	**0.82**	**J**	1.9	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-19 1-3ft
Lab Sample ID: 480-189621-2
Date Collected: 09/14/21 11:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 85.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
Toxaphene	ND		19	11	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*45 - 120*	*09/21/21 08:39*	*09/22/21 10:47*	*1*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*09/21/21 08:39*	*09/22/21 10:47*	*1*
Tetrachloro-m-xylene	*98*		*30 - 124*	*09/21/21 08:39*	*09/22/21 10:47*	*1*
Tetrachloro-m-xylene	*93*		*30 - 124*	*09/21/21 08:39*	*09/22/21 10:47*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.038	mg/Kg	☼	09/16/21 14:59	09/17/21 13:37	1
PCB-1221	ND		0.20	0.038	mg/Kg	☼	09/16/21 14:59	09/17/21 13:37	1
PCB-1232	ND		0.20	0.038	mg/Kg	☼	09/16/21 14:59	09/17/21 13:37	1
PCB-1242	ND		0.20	0.038	mg/Kg	☼	09/16/21 14:59	09/17/21 13:37	1
PCB-1248	ND		0.20	0.038	mg/Kg	☼	09/16/21 14:59	09/17/21 13:37	1
PCB-1254	ND		0.20	0.092	mg/Kg	☼	09/16/21 14:59	09/17/21 13:37	1
PCB-1260	ND		0.20	0.092	mg/Kg	☼	09/16/21 14:59	09/17/21 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*60 - 154*	*09/16/21 14:59*	*09/17/21 13:37*	*1*
Tetrachloro-m-xylene	*117*		*60 - 154*	*09/16/21 14:59*	*09/17/21 13:37*	*1*
DCB Decachlorobiphenyl	*155*		*65 - 174*	*09/16/21 14:59*	*09/17/21 13:37*	*1*
DCB Decachlorobiphenyl	*128*		*65 - 174*	*09/16/21 14:59*	*09/17/21 13:37*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.2	ug/Kg	☼	09/21/21 06:53	09/23/21 17:06	1
2,4-D	ND		19	12	ug/Kg	☼	09/21/21 06:53	09/23/21 17:06	1
Silvex (2,4,5-TP)	ND		19	7.0	ug/Kg	☼	09/21/21 06:53	09/23/21 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*65*		*28 - 129*	*09/21/21 06:53*	*09/23/21 17:06*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*09/21/21 06:53*	*09/23/21 17:06*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.56	0.18	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluoropentanoic acid (PFPeA)	ND		0.22	0.043	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorohexanoic acid (PFHxA)	ND		0.22	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorooctanoic acid (PFOA)	ND		0.22	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorononanoic acid (PFNA)	ND		0.22	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorodecanoic acid (PFDA)	ND		0.22	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorododecanoic acid (PFDoA)	ND		0.22	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-19 1-3ft
Date Collected: 09/14/21 11:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-2
Matrix: Solid
Percent Solids: 85.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.010	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.22	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.041	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.051	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.2	0.035	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.2	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C4 PFHpA	*71*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C4 PFOA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C4 PFOS	*58*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C5 PFNA	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C4 PFBA	*70*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C2 PFHxA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C2 PFDA	*61*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C2 PFUnA	*57*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C2 PFDoA	*62*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C8 FOSA	*62*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C5 PFPeA	*74*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C2 PFTeDA	*60*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
d3-NMeFOSAA	*58*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
d5-NEtFOSAA	*63*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
M2-6:2 FTS	*68*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
M2-8:2 FTS	*61*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*
13C3 PFBS	*69*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17300**		11.4	5.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Antimony	**1.4**	**J**	17.1	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Arsenic	**2.1**	**J**	2.3	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Barium	**48.6**		0.57	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Beryllium	**0.85**		0.23	0.032	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Cadmium	**0.19**	**J**	0.23	0.034	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Calcium	**22900**	**B**	57.0	3.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Chromium	**26.4**		0.57	0.23	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Cobalt	**15.4**		0.57	0.057	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Copper	**53.6**		1.1	0.24	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Iron	**26200**		11.4	4.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Lead	**4.3**		1.1	0.27	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Magnesium	**7370**		22.8	1.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Manganese	**371**	**B**	0.23	0.036	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-19 1-3ft
Lab Sample ID: 480-189621-2
Date Collected: 09/14/21 11:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 85.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	48.1		5.7	0.26	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Potassium	2640		34.2	22.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Selenium	2.1	J	4.6	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Silver	ND		0.68	0.23	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Sodium	86.5	J	160	14.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Thallium	ND		6.8	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Vanadium	25.0		0.57	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1
Zinc	49.1		2.3	0.73	mg/Kg	☼	09/17/21 15:27	09/21/21 00:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.025	0.0058	mg/Kg	☼	09/20/21 14:20	09/20/21 15:48	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-28 4-5ft
Date Collected: 09/14/21 10:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-3
Matrix: Solid
Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.7	0.34	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.76	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,1,2-Trichloroethane	ND		4.7	0.61	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,1-Dichloroethane	ND		4.7	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,1-Dichloroethene	ND		4.7	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,2,4-Trichlorobenzene	ND		4.7	0.28	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,2-Dibromo-3-Chloropropane	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,2-Dibromoethane	ND		4.7	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,2-Dichlorobenzene	ND		4.7	0.37	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,2-Dichloroethane	ND		4.7	0.23	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,2-Dichloropropane	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,3-Dichlorobenzene	ND		4.7	0.24	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
1,4-Dichlorobenzene	ND		4.7	0.65	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Acetone	**13**	**J**	23	3.9	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Benzene	ND		4.7	0.23	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Bromodichloromethane	ND		4.7	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Bromoform	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Bromomethane	ND		4.7	0.42	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Carbon disulfide	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Carbon tetrachloride	ND		4.7	0.45	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Chlorobenzene	ND		4.7	0.62	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Chloroethane	ND		4.7	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Chloroform	ND		4.7	0.29	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Chloromethane	ND		4.7	0.28	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
cis-1,2-Dichloroethene	ND		4.7	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
cis-1,3-Dichloropropene	ND		4.7	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Cyclohexane	ND		4.7	0.65	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Dibromochloromethane	ND		4.7	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Dichlorodifluoromethane	ND		4.7	0.39	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Ethylbenzene	ND		4.7	0.32	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Isopropylbenzene	ND		4.7	0.71	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Methyl tert-butyl ether	ND		4.7	0.46	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Methylcyclohexane	ND		4.7	0.71	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Methylene Chloride	ND		4.7	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Styrene	ND		4.7	0.23	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Tetrachloroethene	ND		4.7	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Toluene	ND		4.7	0.35	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
trans-1,2-Dichloroethene	ND		4.7	0.48	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
trans-1,3-Dichloropropene	ND		4.7	2.1	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Trichloroethene	ND		4.7	1.0	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Trichlorofluoromethane	ND		4.7	0.44	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Vinyl chloride	ND		4.7	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1
Xylenes, Total	ND		9.4	0.79	ug/Kg	☼	09/15/21 18:03	09/17/21 01:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-28 4-5ft
Date Collected: 09/14/21 10:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-3
Matrix: Solid
Percent Solids: 90.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*09/15/21 18:03*	*09/17/21 01:27*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*09/15/21 18:03*	*09/17/21 01:27*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*09/15/21 18:03*	*09/17/21 01:27*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*09/15/21 18:03*	*09/17/21 01:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	61	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2,4-Dinitrophenol	ND		1800	870	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2-Chlorophenol	ND		360	34	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2-Methylphenol	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2-Nitroaniline	ND		360	28	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
3-Nitroaniline	ND		360	52	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4-Methylphenol	ND		360	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4-Nitroaniline	ND		360	98	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Acenaphthene	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Acenaphthylene	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Acetophenone	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Anthracene	ND		190	46	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Atrazine	ND		190	65	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Benzaldehyde	ND		190	150	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Biphenyl	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Caprolactam	ND		190	56	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Carbazole	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1

Client Sample ID: TP-28 4-5ft
Date Collected: 09/14/21 10:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-3
Matrix: Solid
Percent Solids: 90.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		190	42	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Dibenzofuran	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Fluoranthene	ND		190	20	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Fluorene	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Hexachloroethane	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Isophorone	ND		190	40	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Naphthalene	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Nitrobenzene	ND		190	21	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Phenanthrene	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Phenol	ND		190	29	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1
Pyrene	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*54 - 120*	*09/20/21 07:47*	*09/22/21 02:39*	*1*
2-Fluorobiphenyl	*96*		*60 - 120*	*09/20/21 07:47*	*09/22/21 02:39*	*1*
2-Fluorophenol	*71*		*52 - 120*	*09/20/21 07:47*	*09/22/21 02:39*	*1*
Nitrobenzene-d5	*76*		*53 - 120*	*09/20/21 07:47*	*09/22/21 02:39*	*1*
Phenol-d5	*76*		*54 - 120*	*09/20/21 07:47*	*09/22/21 02:39*	*1*
p-Terphenyl-d14	*98*		*79 - 130*	*09/20/21 07:47*	*09/22/21 02:39*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
4,4'-DDE	ND		1.8	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
4,4'-DDT	ND		1.8	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Aldrin	ND		1.8	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
alpha-BHC	ND		1.8	0.33	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
beta-BHC	**0.38**	**J B**	1.8	0.33	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
cis-Chlordane	ND		1.8	0.91	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
delta-BHC	ND		1.8	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Dieldrin	ND		1.8	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Endosulfan I	ND		1.8	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Endosulfan II	ND		1.8	0.33	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Endosulfan sulfate	ND		1.8	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Endrin	ND		1.8	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Endrin aldehyde	ND		1.8	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Endrin ketone	**0.62**	**J**	1.8	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
gamma-BHC (Lindane)	ND		1.8	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-28 4-5ft
Lab Sample ID: 480-189621-3
Date Collected: 09/14/21 10:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 90.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.8	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Heptachlor epoxide	ND		1.8	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Methoxychlor	ND		1.8	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
Toxaphene	ND		18	11	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1
trans-Chlordane	ND		1.8	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*45 - 120*	*09/21/21 08:39*	*09/22/21 11:06*	*1*
DCB Decachlorobiphenyl	*106*		*45 - 120*	*09/21/21 08:39*	*09/22/21 11:06*	*1*
Tetrachloro-m-xylene	*100*		*30 - 124*	*09/21/21 08:39*	*09/22/21 11:06*	*1*
Tetrachloro-m-xylene	*97*		*30 - 124*	*09/21/21 08:39*	*09/22/21 11:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 13:50	1
PCB-1221	ND		0.27	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 13:50	1
PCB-1232	ND		0.27	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 13:50	1
PCB-1242	ND		0.27	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 13:50	1
PCB-1248	ND		0.27	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 13:50	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 13:50	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*129*		*60 - 154*	*09/16/21 14:59*	*09/17/21 13:50*	*1*
Tetrachloro-m-xylene	*126*		*60 - 154*	*09/16/21 14:59*	*09/17/21 13:50*	*1*
DCB Decachlorobiphenyl	*164*		*65 - 174*	*09/16/21 14:59*	*09/17/21 13:50*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*09/16/21 14:59*	*09/17/21 13:50*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	09/21/21 06:53	09/23/21 17:36	1
2,4-D	ND		18	11	ug/Kg	☼	09/21/21 06:53	09/23/21 17:36	1
Silvex (2,4,5-TP)	ND		18	6.5	ug/Kg	☼	09/21/21 06:53	09/23/21 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*59*		*28 - 129*	*09/21/21 06:53*	*09/23/21 17:36*	*1*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*	*09/21/21 06:53*	*09/23/21 17:36*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.52	0.17	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluoropentanoic acid (PFPeA)	ND		0.21	0.041	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorohexanoic acid (PFHxA)	ND		0.21	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorooctanoic acid (PFOA)	ND		0.21	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorononanoic acid (PFNA)	ND		0.21	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorodecanoic acid (PFDA)	ND		0.21	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorododecanoic acid (PFDoA)	ND		0.21	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-28 4-5ft
Date Collected: 09/14/21 10:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-3
Matrix: Solid
Percent Solids: 90.2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.0097	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.015	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.21	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.039	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.048	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.1	0.032	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.1	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C4 PFHpA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C4 PFOA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C4 PFOS	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C5 PFNA	*70*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C4 PFBA	*72*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C2 PFHxA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C2 PFDA	*68*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C2 PFUnA	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C2 PFDoA	*66*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C8 FOSA	*67*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C5 PFPeA	*79*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C2 PFTeDA	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
d3-NMeFOSAA	*71*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
d5-NEtFOSAA	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
M2-6:2 FTS	*75*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
M2-8:2 FTS	*64*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*
13C3 PFBS	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19900**		11.2	4.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Antimony	**1.2**	**J**	16.8	0.45	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Arsenic	**3.8**		2.2	0.45	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Barium	**54.4**		0.56	0.12	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Beryllium	**0.97**		0.22	0.031	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Cadmium	**0.24**		0.22	0.034	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Calcium	**15700**	**B**	55.9	3.7	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Chromium	**29.1**		0.56	0.22	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Cobalt	**17.0**		0.56	0.056	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Copper	**27.5**		1.1	0.23	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Iron	**27100**		11.2	3.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Lead	**6.9**		1.1	0.27	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Magnesium	**6330**		22.4	1.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Manganese	**301**	**B**	0.22	0.036	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-28 4-5ft
Lab Sample ID: 480-189621-3
Date Collected: 09/14/21 10:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 90.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	52.8		5.6	0.26	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Potassium	2620		33.6	22.4	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Selenium	2.3	J	4.5	0.45	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Silver	ND		0.67	0.22	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Sodium	74.8	J	157	14.5	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Thallium	ND		6.7	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Vanadium	30.4		0.56	0.12	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1
Zinc	59.2		2.2	0.72	mg/Kg	☼	09/17/21 15:27	09/21/21 00:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.027	0.0062	mg/Kg	☼	09/20/21 14:20	09/20/21 15:49	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-32 0-6in
Date Collected: 09/14/21 12:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-4
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Acetone	ND		25	4.1	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Benzene	ND		4.9	0.24	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Bromoform	ND		4.9	2.5	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Carbon disulfide	ND		4.9	2.5	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Chlorobenzene	ND		4.9	0.65	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Chloromethane	ND		4.9	0.30	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Cyclohexane	ND		4.9	0.69	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Methyl acetate	ND		25	3.0	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Methylene Chloride	ND		4.9	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Styrene	ND		4.9	0.25	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Toluene	ND		4.9	0.37	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Trichloroethene	ND		4.9	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Vinyl chloride	ND		4.9	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1
Xylenes, Total	ND		9.8	0.82	ug/Kg	☼	09/15/21 18:03	09/17/21 01:51	1

Client Sample ID: TP-32 0-6in
Date Collected: 09/14/21 12:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-4
Matrix: Solid
Percent Solids: 86.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*09/15/21 18:03*	*09/17/21 01:51*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 126*	*09/15/21 18:03*	*09/17/21 01:51*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*09/15/21 18:03*	*09/17/21 01:51*	*1*
Toluene-d8 (Surr)	*104*		*71 - 125*	*09/15/21 18:03*	*09/17/21 01:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	63	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2,4,5-Trichlorophenol	ND		190	53	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2,4-Dichlorophenol	ND		190	21	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2-Chlorophenol	ND		380	35	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2-Methylphenol	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4-Methylphenol	ND		380	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Acenaphthene	ND		190	29	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Acenaphthylene	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Acetophenone	ND		190	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Anthracene	ND		190	48	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Atrazine	ND		190	67	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Benzaldehyde	ND		190	150	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Benzo[a]pyrene	ND		190	29	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Benzo[g,h,i]perylene	ND		190	21	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Biphenyl	ND		190	29	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Caprolactam	ND		190	58	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Carbazole	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1

Client Sample ID: TP-32 0-6in
Date Collected: 09/14/21 12:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-4
Matrix: Solid
Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		190	43	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Dibenzofuran	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Fluoranthene	ND		190	21	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Fluorene	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Hexachloroethane	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Isophorone	ND		190	41	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Naphthalene	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Nitrobenzene	ND		190	22	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Phenanthrene	ND		190	29	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Phenol	ND		190	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1
Pyrene	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*54 - 120*	*09/20/21 07:47*	*09/22/21 03:03*	*1*
2-Fluorobiphenyl	*87*		*60 - 120*	*09/20/21 07:47*	*09/22/21 03:03*	*1*
2-Fluorophenol	*64*		*52 - 120*	*09/20/21 07:47*	*09/22/21 03:03*	*1*
Nitrobenzene-d5	*72*		*53 - 120*	*09/20/21 07:47*	*09/22/21 03:03*	*1*
Phenol-d5	*66*		*54 - 120*	*09/20/21 07:47*	*09/22/21 03:03*	*1*
p-Terphenyl-d14	*91*		*79 - 130*	*09/20/21 07:47*	*09/22/21 03:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
beta-BHC	**0.55**	**J B**	1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
cis-Chlordane	ND		1.9	0.95	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Endrin	ND		1.9	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1

Client Sample ID: TP-32 0-6in
Date Collected: 09/14/21 12:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-4
Matrix: Solid
Percent Solids: 86.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Methoxychlor	**2.5**		1.9	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
Toxaphene	ND		19	11	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*45 - 120*	*09/21/21 08:39*	*09/22/21 11:26*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 120*	*09/21/21 08:39*	*09/22/21 11:26*	*1*
Tetrachloro-m-xylene	*101*		*30 - 124*	*09/21/21 08:39*	*09/22/21 11:26*	*1*
Tetrachloro-m-xylene	*103*		*30 - 124*	*09/21/21 08:39*	*09/22/21 11:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	09/16/21 14:59	09/17/21 14:03	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	09/16/21 14:59	09/17/21 14:03	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	09/16/21 14:59	09/17/21 14:03	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	09/16/21 14:59	09/17/21 14:03	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	09/16/21 14:59	09/17/21 14:03	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/16/21 14:59	09/17/21 14:03	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	09/16/21 14:59	09/17/21 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*128*		*60 - 154*	*09/16/21 14:59*	*09/17/21 14:03*	*1*
Tetrachloro-m-xylene	*124*		*60 - 154*	*09/16/21 14:59*	*09/17/21 14:03*	*1*
DCB Decachlorobiphenyl	*168*		*65 - 174*	*09/16/21 14:59*	*09/17/21 14:03*	*1*
DCB Decachlorobiphenyl	*132*		*65 - 174*	*09/16/21 14:59*	*09/17/21 14:03*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.1	ug/Kg	☼	09/21/21 06:53	09/23/21 18:05	1
2,4-D	ND		19	12	ug/Kg	☼	09/21/21 06:53	09/23/21 18:05	1
Silvex (2,4,5-TP)	ND		19	6.9	ug/Kg	☼	09/21/21 06:53	09/23/21 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*09/21/21 06:53*	*09/23/21 18:05*	*1*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*09/21/21 06:53*	*09/23/21 18:05*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.57	0.18	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluoropentanoic acid (PFPeA)	**0.049**	**J**	0.23	0.045	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorohexanoic acid (PFHxA)	**0.062**	**J**	0.23	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluoroheptanoic acid (PFHpA)	**0.063**	**J**	0.23	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorooctanoic acid (PFOA)	**0.23**		0.23	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorononanoic acid (PFNA)	**0.047**	**J**	0.23	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorodecanoic acid (PFDA)	ND		0.23	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1

Client Sample ID: TP-32 0-6in
Lab Sample ID: 480-189621-4
Date Collected: 09/14/21 12:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 86.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.015**	**J B**	0.23	0.011	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorohexanesulfonic acid (PFHxS)	**0.022**	**J B**	0.23	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorooctanesulfonic acid (PFOS)	**0.23**	**I B**	0.23	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.042	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.053	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.3	0.036	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.3	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C4 PFHpA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C4 PFOA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C4 PFOS	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C5 PFNA	*70*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C4 PFBA	*73*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C2 PFHxA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C2 PFDA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C2 PFUnA	*70*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C2 PFDoA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C8 FOSA	*78*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C5 PFPeA	*77*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
d3-NMeFOSAA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
d5-NEtFOSAA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
M2-8:2 FTS	*86*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*
13C3 PFBS	*83*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21100**		11.9	5.2	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Antimony	**1.4**	**J**	17.9	0.48	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Arsenic	**4.4**		2.4	0.48	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Barium	**71.8**		0.60	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Beryllium	**0.83**		0.24	0.033	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Cadmium	**0.32**		0.24	0.036	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Calcium	**1870**	**B**	59.6	3.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Chromium	**28.3**		0.60	0.24	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Cobalt	**21.8**		0.60	0.060	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Copper	**15.0**		1.2	0.25	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Iron	**29500**		11.9	4.2	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-32 0-6in
Lab Sample ID: 480-189621-4
Date Collected: 09/14/21 12:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 86.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16.9		1.2	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Magnesium	4130		23.9	1.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Manganese	1370	B	0.24	0.038	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Nickel	26.0		6.0	0.27	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Potassium	2830		35.8	23.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Selenium	3.0	J	4.8	0.48	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Silver	ND		0.72	0.24	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Sodium	141	J	167	15.5	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Thallium	ND		7.2	0.36	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Vanadium	38.4		0.60	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1
Zinc	72.2		2.4	0.76	mg/Kg	☼	09/17/21 15:27	09/21/21 00:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.022	0.0051	mg/Kg	☼	09/20/21 14:20	09/20/21 15:51	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: BD-1
Date Collected: 09/14/21 11:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-5
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.72	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,1,2-Trichloroethane	ND		4.4	0.58	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,1-Dichloroethane	ND		4.4	0.54	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,1-Dichloroethene	ND		4.4	0.54	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,2,4-Trichlorobenzene	ND		4.4	0.27	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,2-Dibromoethane	ND		4.4	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,2-Dichlorobenzene	ND		4.4	0.35	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,3-Dichlorobenzene	ND		4.4	0.23	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
1,4-Dichlorobenzene	ND		4.4	0.62	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.5	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Acetone	**14**	**J**	22	3.7	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Benzene	ND		4.4	0.22	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Bromodichloromethane	ND		4.4	0.59	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Bromomethane	ND		4.4	0.40	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Carbon tetrachloride	ND		4.4	0.43	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Chlorobenzene	ND		4.4	0.58	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Chloroethane	ND		4.4	1.0	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Chloromethane	ND		4.4	0.27	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
cis-1,2-Dichloroethene	ND		4.4	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
cis-1,3-Dichloropropene	ND		4.4	0.64	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Cyclohexane	ND		4.4	0.62	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Dibromochloromethane	ND		4.4	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Dichlorodifluoromethane	ND		4.4	0.37	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Ethylbenzene	ND		4.4	0.31	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Isopropylbenzene	ND		4.4	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Methylcyclohexane	ND		4.4	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Methylene Chloride	ND		4.4	2.0	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Styrene	ND		4.4	0.22	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Toluene	ND		4.4	0.33	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
trans-1,2-Dichloroethene	ND		4.4	0.46	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Trichloroethene	ND		4.4	0.97	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Trichlorofluoromethane	ND		4.4	0.42	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Vinyl chloride	ND		4.4	0.54	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1
Xylenes, Total	ND		8.9	0.74	ug/Kg	☼	09/15/21 18:03	09/17/21 02:15	1

Client Sample ID: BD-1
Date Collected: 09/14/21 11:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-5
Matrix: Solid
Percent Solids: 84.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 126*	*09/15/21 18:03*	*09/17/21 02:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*09/15/21 18:03*	*09/17/21 02:15*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*09/15/21 18:03*	*09/17/21 02:15*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*09/15/21 18:03*	*09/17/21 02:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	65	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2-Methylphenol	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4-Methylphenol	ND		390	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Acenaphthene	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Acenaphthylene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Acetophenone	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Anthracene	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Atrazine	ND		200	70	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Benzaldehyde	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Biphenyl	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Caprolactam	ND		200	60	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Carbazole	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: BD-1
Lab Sample ID: 480-189621-5
Date Collected: 09/14/21 11:05
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		200	45	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Dibenzofuran	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Fluoranthene	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Fluorene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Hexachloroethane	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Isophorone	ND		200	43	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Naphthalene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Nitrobenzene	ND		200	22	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Phenanthrene	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Phenol	ND		200	31	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1
Pyrene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*54 - 120*	*09/20/21 07:47*	*09/22/21 03:28*	*1*
2-Fluorobiphenyl	*92*		*60 - 120*	*09/20/21 07:47*	*09/22/21 03:28*	*1*
2-Fluorophenol	*66*		*52 - 120*	*09/20/21 07:47*	*09/22/21 03:28*	*1*
Nitrobenzene-d5	*79*		*53 - 120*	*09/20/21 07:47*	*09/22/21 03:28*	*1*
Phenol-d5	*70*		*54 - 120*	*09/20/21 07:47*	*09/22/21 03:28*	*1*
p-Terphenyl-d14	*102*		*79 - 130*	*09/20/21 07:47*	*09/22/21 03:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
cis-Chlordane	ND		2.0	0.98	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Endrin	ND		2.0	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Endrin ketone	**0.88**	**J**	2.0	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: BD-1
Lab Sample ID: 480-189621-5
Date Collected: 09/14/21 11:05
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 84.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
Toxaphene	ND		20	11	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1
trans-Chlordane	ND		2.0	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*45 - 120*	*09/21/21 08:39*	*09/22/21 11:45*	*1*
DCB Decachlorobiphenyl	*99*		*45 - 120*	*09/21/21 08:39*	*09/22/21 11:45*	*1*
Tetrachloro-m-xylene	*95*		*30 - 124*	*09/21/21 08:39*	*09/22/21 11:45*	*1*
Tetrachloro-m-xylene	*93*		*30 - 124*	*09/21/21 08:39*	*09/22/21 11:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	☼	09/16/21 14:59	09/17/21 14:16	1
PCB-1221	ND		0.25	0.048	mg/Kg	☼	09/16/21 14:59	09/17/21 14:16	1
PCB-1232	ND		0.25	0.048	mg/Kg	☼	09/16/21 14:59	09/17/21 14:16	1
PCB-1242	ND		0.25	0.048	mg/Kg	☼	09/16/21 14:59	09/17/21 14:16	1
PCB-1248	ND		0.25	0.048	mg/Kg	☼	09/16/21 14:59	09/17/21 14:16	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	09/16/21 14:59	09/17/21 14:16	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	09/16/21 14:59	09/17/21 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*132*		*60 - 154*	*09/16/21 14:59*	*09/17/21 14:16*	*1*
Tetrachloro-m-xylene	*129*		*60 - 154*	*09/16/21 14:59*	*09/17/21 14:16*	*1*
DCB Decachlorobiphenyl	*183*	*S1+*	*65 - 174*	*09/16/21 14:59*	*09/17/21 14:16*	*1*
DCB Decachlorobiphenyl	*140*		*65 - 174*	*09/16/21 14:59*	*09/17/21 14:16*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.2	ug/Kg	☼	09/21/21 06:53	09/23/21 18:35	1
2,4-D	ND		19	12	ug/Kg	☼	09/21/21 06:53	09/23/21 18:35	1
Silvex (2,4,5-TP)	ND		19	7.0	ug/Kg	☼	09/21/21 06:53	09/23/21 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*09/21/21 06:53*	*09/23/21 18:35*	*1*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*09/21/21 06:53*	*09/23/21 18:35*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.59	0.19	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluoropentanoic acid (PFPeA)	ND		0.24	0.046	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorohexanoic acid (PFHxA)	ND		0.24	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluoroheptanoic acid (PFHpA)	ND		0.24	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorooctanoic acid (PFOA)	ND		0.24	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorononanoic acid (PFNA)	ND		0.24	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorodecanoic acid (PFDA)	ND		0.24	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluoroundecanoic acid (PFUnA)	ND		0.24	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorododecanoic acid (PFDoA)	ND		0.24	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorotridecanoic acid (PFTriA)	ND		0.24	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: BD-1
Date Collected: 09/14/21 11:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-5
Matrix: Solid
Percent Solids: 84.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.011	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.24	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorooctanesulfonic acid (PFOS)	**0.019**	**J I B**	0.24	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.043	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.054	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.4	0.036	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.4	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*71*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C4 PFHpA	*71*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C4 PFOA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C4 PFOS	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C5 PFNA	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C4 PFBA	*71*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C2 PFHxA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C2 PFDA	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C2 PFUnA	*62*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C2 PFDoA	*66*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C8 FOSA	*67*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C5 PFPeA	*76*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C2 PFTeDA	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
d3-NMeFOSAA	*64*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
d5-NEtFOSAA	*64*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
M2-6:2 FTS	*77*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
M2-8:2 FTS	*67*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*
13C3 PFBS	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19400**		11.4	5.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Antimony	**0.93**	**J**	17.1	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Arsenic	**1.2**	**J**	2.3	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Barium	**56.7**		0.57	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Beryllium	**0.89**		0.23	0.032	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Cadmium	**0.19**	**J**	0.23	0.034	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Calcium	**31500**	**B**	56.9	3.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Chromium	**28.9**		0.57	0.23	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Cobalt	**13.6**		0.57	0.057	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Copper	**27.7**		1.1	0.24	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Iron	**23300**		11.4	4.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Lead	**4.1**		1.1	0.27	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Magnesium	**7540**		22.8	1.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: BD-1
Date Collected: 09/14/21 11:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-5
Matrix: Solid
Percent Solids: 84.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	358	B	0.23	0.036	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Nickel	48.2		5.7	0.26	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Potassium	3230		34.2	22.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Selenium	1.6	J	4.6	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Silver	ND		0.68	0.23	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Sodium	105	J	159	14.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Thallium	ND		6.8	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Vanadium	28.4		0.57	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1
Zinc	48.6		2.3	0.73	mg/Kg	☼	09/17/21 15:27	09/21/21 00:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.023	0.0053	mg/Kg	☼	09/20/21 14:20	09/20/21 15:52	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: BD-2
Date Collected: 09/14/21 12:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-6
Matrix: Solid
Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.7	0.34	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.76	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,1,2-Trichloroethane	ND		4.7	0.61	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,1-Dichloroethane	ND		4.7	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,1-Dichloroethene	ND		4.7	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,2,4-Trichlorobenzene	ND		4.7	0.28	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,2-Dibromo-3-Chloropropane	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,2-Dibromoethane	ND		4.7	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,2-Dichlorobenzene	ND		4.7	0.37	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,2-Dichloroethane	ND		4.7	0.23	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,2-Dichloropropane	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,3-Dichlorobenzene	ND		4.7	0.24	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
1,4-Dichlorobenzene	ND		4.7	0.65	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Acetone	ND		23	3.9	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Benzene	ND		4.7	0.23	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Bromodichloromethane	ND		4.7	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Bromoform	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Bromomethane	ND		4.7	0.42	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Carbon disulfide	ND		4.7	2.3	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Carbon tetrachloride	ND		4.7	0.45	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Chlorobenzene	ND		4.7	0.62	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Chloroethane	ND		4.7	1.1	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Chloroform	ND		4.7	0.29	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Chloromethane	ND		4.7	0.28	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
cis-1,2-Dichloroethene	ND		4.7	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
cis-1,3-Dichloropropene	ND		4.7	0.67	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Cyclohexane	ND		4.7	0.65	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Dibromochloromethane	ND		4.7	0.60	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Dichlorodifluoromethane	ND		4.7	0.39	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Ethylbenzene	ND		4.7	0.32	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Isopropylbenzene	ND		4.7	0.71	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Methyl tert-butyl ether	ND		4.7	0.46	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Methylcyclohexane	ND		4.7	0.71	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Methylene Chloride	ND		4.7	2.2	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Styrene	ND		4.7	0.23	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Tetrachloroethene	ND		4.7	0.63	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Toluene	ND		4.7	0.35	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
trans-1,2-Dichloroethene	ND		4.7	0.48	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
trans-1,3-Dichloropropene	ND		4.7	2.1	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Trichloroethene	ND		4.7	1.0	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Trichlorofluoromethane	ND		4.7	0.44	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Vinyl chloride	ND		4.7	0.57	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1
Xylenes, Total	ND		9.4	0.79	ug/Kg	☼	09/15/21 18:03	09/17/21 02:38	1

Client Sample ID: BD-2
Date Collected: 09/14/21 12:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-6
Matrix: Solid
Percent Solids: 86.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*09/15/21 18:03*	*09/17/21 02:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*09/15/21 18:03*	*09/17/21 02:38*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*09/15/21 18:03*	*09/17/21 02:38*	*1*
Toluene-d8 (Surr)	*105*		*71 - 125*	*09/15/21 18:03*	*09/17/21 02:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	62	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2-Chlorophenol	ND		370	35	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2-Methylphenol	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4-Methylphenol	ND		370	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Acenaphthene	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Acenaphthylene	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Acetophenone	ND		190	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Anthracene	ND		190	47	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Atrazine	ND		190	67	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Benzaldehyde	ND		190	150	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Benzo[a]anthracene	**220**		190	19	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Benzo[a]pyrene	**190**		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Benzo[b]fluoranthene	**240**		190	30	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Benzo[g,h,i]perylene	**140**	**J**	190	20	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Benzo[k]fluoranthene	**89**	**J**	190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Biphenyl	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Caprolactam	ND		190	58	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Carbazole	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1

Client Sample ID: BD-2
Date Collected: 09/14/21 12:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-6
Matrix: Solid
Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**190**		190	43	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Dibenzofuran	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Fluoranthene	**410**		190	20	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Fluorene	ND		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Hexachloroethane	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Indeno[1,2,3-cd]pyrene	**130**	**J**	190	24	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Isophorone	ND		190	41	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Naphthalene	ND		190	25	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Nitrobenzene	ND		190	21	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Phenanthrene	**180**	**J**	190	28	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Phenol	ND		190	29	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1
Pyrene	**420**		190	23	ug/Kg	☼	09/20/21 07:47	09/22/21 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*54 - 120*	*09/20/21 07:47*	*09/22/21 03:52*	*1*
2-Fluorobiphenyl	*101*		*60 - 120*	*09/20/21 07:47*	*09/22/21 03:52*	*1*
2-Fluorophenol	*72*		*52 - 120*	*09/20/21 07:47*	*09/22/21 03:52*	*1*
Nitrobenzene-d5	*85*		*53 - 120*	*09/20/21 07:47*	*09/22/21 03:52*	*1*
Phenol-d5	*72*		*54 - 120*	*09/20/21 07:47*	*09/22/21 03:52*	*1*
p-Terphenyl-d14	*109*		*79 - 130*	*09/20/21 07:47*	*09/22/21 03:52*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
4,4'-DDE	**1.1**	**J**	1.9	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
cis-Chlordane	ND		1.9	0.95	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Endrin	ND		1.9	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1

Client Sample ID: BD-2
Date Collected: 09/14/21 12:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-6
Matrix: Solid
Percent Solids: 86.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Methoxychlor	**3.2**		1.9	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
Toxaphene	ND		19	11	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*45 - 120*	*09/21/21 08:39*	*09/22/21 12:05*	*1*
DCB Decachlorobiphenyl	*116*		*45 - 120*	*09/21/21 08:39*	*09/22/21 12:05*	*1*
Tetrachloro-m-xylene	*107*		*30 - 124*	*09/21/21 08:39*	*09/22/21 12:05*	*1*
Tetrachloro-m-xylene	*113*		*30 - 124*	*09/21/21 08:39*	*09/22/21 12:05*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	09/16/21 14:59	09/17/21 14:28	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	09/16/21 14:59	09/17/21 14:28	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	09/16/21 14:59	09/17/21 14:28	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	09/16/21 14:59	09/17/21 14:28	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	09/16/21 14:59	09/17/21 14:28	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 14:28	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*126*		*60 - 154*	*09/16/21 14:59*	*09/17/21 14:28*	*1*
Tetrachloro-m-xylene	*124*		*60 - 154*	*09/16/21 14:59*	*09/17/21 14:28*	*1*
DCB Decachlorobiphenyl	*177*	*S1+*	*65 - 174*	*09/16/21 14:59*	*09/17/21 14:28*	*1*
DCB Decachlorobiphenyl	*137*		*65 - 174*	*09/16/21 14:59*	*09/17/21 14:28*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.1	ug/Kg	☼	09/21/21 06:53	09/23/21 19:34	1
2,4-D	ND		19	12	ug/Kg	☼	09/21/21 06:53	09/23/21 19:34	1
Silvex (2,4,5-TP)	ND		19	6.9	ug/Kg	☼	09/21/21 06:53	09/23/21 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*09/21/21 06:53*	*09/23/21 19:34*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*09/21/21 06:53*	*09/23/21 19:34*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.56	0.18	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluoropentanoic acid (PFPeA)	ND		0.22	0.044	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorohexanoic acid (PFHxA)	**0.025**	**J I**	0.22	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorooctanoic acid (PFOA)	**0.055**	**J**	0.22	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorononanoic acid (PFNA)	ND		0.22	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorodecanoic acid (PFDA)	ND		0.22	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.22	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1

Client Sample ID: BD-2
Lab Sample ID: 480-189621-6
Date Collected: 09/14/21 12:35
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 86.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.011**	**J I B**	0.22	0.010	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorohexanesulfonic acid (PFHxS)	**0.017**	**J I B**	0.22	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.22	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorooctanesulfonic acid (PFOS)	**0.068**	**J I B**	0.22	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.041	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.051	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.2	0.035	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.2	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C4 PFHpA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C4 PFOA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C4 PFOS	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C5 PFNA	*68*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C4 PFBA	*71*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C2 PFHxA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C2 PFDA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C2 PFUnA	*70*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C2 PFDoA	*69*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C8 FOSA	*69*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C5 PFPeA	*76*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C2 PFTeDA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
d5-NEtFOSAA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
M2-6:2 FTS	*76*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
M2-8:2 FTS	*67*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*
13C3 PFBS	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18500**		11.4	5.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Antimony	**1.3**	**J**	17.1	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Arsenic	**4.8**		2.3	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Barium	**58.2**		0.57	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Beryllium	**0.79**		0.23	0.032	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Cadmium	**0.27**		0.23	0.034	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Calcium	**1440**	**B**	57.1	3.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Chromium	**26.2**		0.57	0.23	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Cobalt	**11.9**		0.57	0.057	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Copper	**11.8**		1.1	0.24	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Iron	**26200**		11.4	4.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: BD-2
Date Collected: 09/14/21 12:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-6
Matrix: Solid
Percent Solids: 86.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12.4		1.1	0.27	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Magnesium	3500		22.8	1.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Manganese	749	B	0.23	0.037	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Nickel	21.4		5.7	0.26	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Potassium	2380		34.3	22.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Selenium	3.0	J	4.6	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Silver	ND		0.69	0.23	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Sodium	142	J	160	14.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Thallium	ND		6.9	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Vanadium	35.3		0.57	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1
Zinc	60.8		2.3	0.73	mg/Kg	☼	09/17/21 15:27	09/21/21 00:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.027	0.0062	mg/Kg	☼	09/20/21 14:20	09/20/21 15:56	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-5
Date Collected: 09/14/21 14:40
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-7
Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	65	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2-Methylphenol	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4-Methylphenol	ND		390	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Acenaphthene	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Acenaphthylene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Acetophenone	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Anthracene	ND		200	50	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Atrazine	ND		200	70	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Benzaldehyde	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Benzo[a]anthracene	**120**	**J**	200	20	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Benzo[a]pyrene	**120**	**J**	200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Benzo[b]fluoranthene	**200**		200	32	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Benzo[g,h,i]perylene	**100**	**J**	200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Benzo[k]fluoranthene	**55**	**J**	200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Biphenyl	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Caprolactam	ND		200	60	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Carbazole	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Chrysene	**130**	**J**	200	45	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Dibenzofuran	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1

Client Sample ID: SS-5
Lab Sample ID: 480-189621-7
Date Collected: 09/14/21 14:40
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Fluoranthene	**320**		200	21	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Fluorene	**24**	**J**	200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Hexachloroethane	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Indeno[1,2,3-cd]pyrene	**94**	**J**	200	25	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Isophorone	ND		200	43	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Naphthalene	ND		200	26	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Nitrobenzene	ND		200	23	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Phenanthrene	**190**	**J**	200	30	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Phenol	ND		200	31	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1
Pyrene	**210**		200	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*54 - 120*	*09/20/21 07:47*	*09/22/21 04:16*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*09/20/21 07:47*	*09/22/21 04:16*	*1*
2-Fluorophenol	*69*		*52 - 120*	*09/20/21 07:47*	*09/22/21 04:16*	*1*
Nitrobenzene-d5	*78*		*53 - 120*	*09/20/21 07:47*	*09/22/21 04:16*	*1*
Phenol-d5	*73*		*54 - 120*	*09/20/21 07:47*	*09/22/21 04:16*	*1*
p-Terphenyl-d14	*97*		*79 - 130*	*09/20/21 07:47*	*09/22/21 04:16*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
4,4'-DDE	**1.8**	**J**	2.0	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
cis-Chlordane	ND		2.0	1.0	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Endrin	ND		2.0	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Endrin aldehyde	**1.6**	**J**	2.0	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Heptachlor	ND		2.0	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Methoxychlor	**1.8**	**J**	2.0	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
Toxaphene	ND		20	12	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1
trans-Chlordane	ND		2.0	0.64	ug/Kg	☼	09/21/21 08:39	09/22/21 12:25	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-5

Date Collected: 09/14/21 14:40
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-7

Matrix: Solid
Percent Solids: 82.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		45 - 120	09/21/21 08:39	09/22/21 12:25	1
DCB Decachlorobiphenyl	88		45 - 120	09/21/21 08:39	09/22/21 12:25	1
Tetrachloro-m-xylene	75		30 - 124	09/21/21 08:39	09/22/21 12:25	1
Tetrachloro-m-xylene	66		30 - 124	09/21/21 08:39	09/22/21 12:25	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	09/16/21 14:59	09/17/21 14:41	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	09/16/21 14:59	09/17/21 14:41	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	09/16/21 14:59	09/17/21 14:41	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	09/16/21 14:59	09/17/21 14:41	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	09/16/21 14:59	09/17/21 14:41	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/16/21 14:59	09/17/21 14:41	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	09/16/21 14:59	09/17/21 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	109		60 - 154	09/16/21 14:59	09/17/21 14:41	1
Tetrachloro-m-xylene	105		60 - 154	09/16/21 14:59	09/17/21 14:41	1
DCB Decachlorobiphenyl	141		65 - 174	09/16/21 14:59	09/17/21 14:41	1
DCB Decachlorobiphenyl	110		65 - 174	09/16/21 14:59	09/17/21 14:41	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.4	ug/Kg	☼	09/21/21 06:53	09/23/21 20:04	1
2,4-D	ND		20	13	ug/Kg	☼	09/21/21 06:53	09/23/21 20:04	1
Silvex (2,4,5-TP)	ND		20	7.2	ug/Kg	☼	09/21/21 06:53	09/23/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	71		28 - 129	09/21/21 06:53	09/23/21 20:04	1
2,4-Dichlorophenylacetic acid	73		28 - 129	09/21/21 06:53	09/23/21 20:04	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.60	0.19	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluoropentanoic acid (PFPeA)	ND		0.24	0.047	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorohexanoic acid (PFHxA)	**0.14**	**J I**	0.24	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluoroheptanoic acid (PFHpA)	**0.058**	**J**	0.24	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorooctanoic acid (PFOA)	**0.14**	**J**	0.24	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorononanoic acid (PFNA)	**0.086**	**J**	0.24	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorodecanoic acid (PFDA)	**0.093**	**J B**	0.24	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluoroundecanoic acid (PFUnA)	**0.11**	**J**	0.24	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorododecanoic acid (PFDoA)	**0.058**	**J**	0.24	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorotridecanoic acid (PFTriA)	**0.053**	**J**	0.24	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorotetradecanoic acid (PFTeA)	**0.051**	**J**	0.24	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorobutanesulfonic acid (PFBS)	**0.017**	**J B**	0.24	0.011	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorohexanesulfonic acid (PFHxS)	**0.039**	**J I B**	0.24	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1

Client Sample ID: SS-5
Date Collected: 09/14/21 14:40
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-7
Matrix: Solid
Percent Solids: 82.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.88**	**I B**	0.24	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorodecanesulfonic acid (PFDS)	**0.017**	**J B**	0.24	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.044	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.055	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.4	0.037	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.4	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 06:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*87*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C4 PFHpA	*83*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C4 PFOA	*86*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C4 PFOS	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C5 PFNA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C4 PFBA	*84*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C2 PFHxA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C2 PFDA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C2 PFUnA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C2 PFDoA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C8 FOSA	*78*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C5 PFPeA	*86*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
d3-NMeFOSAA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
d5-NEtFOSAA	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
M2-6:2 FTS	*113*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
M2-8:2 FTS	*104*		*25 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*
13C3 PFBS	*89*		*50 - 150*	*09/21/21 08:52*	*09/22/21 06:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8300**		12.2	5.4	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Antimony	**1.8**	**J**	18.3	0.49	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Arsenic	**5.0**		2.4	0.49	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Barium	**46.2**		0.61	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Beryllium	**0.51**		0.24	0.034	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Cadmium	**0.47**		0.24	0.037	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Calcium	**43900**	**B**	61.1	4.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Chromium	**33.5**		0.61	0.24	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Cobalt	**6.7**		0.61	0.061	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Copper	**30.9**		1.2	0.26	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Iron	**21600**		12.2	4.3	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Lead	**41.7**		1.2	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Magnesium	**5120**		24.4	1.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Manganese	**628**	**B**	0.24	0.039	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Nickel	**31.2**		6.1	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Potassium	**1670**		36.6	24.4	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-5
Lab Sample ID: 480-189621-7
Date Collected: 09/14/21 14:40
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 82.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.5	J	4.9	0.49	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Silver	ND		0.73	0.24	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Sodium	104	J	171	15.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Thallium	ND		7.3	0.37	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Vanadium	22.7		0.61	0.13	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1
Zinc	135		2.4	0.78	mg/Kg	☼	09/17/21 15:27	09/21/21 00:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083		0.027	0.0062	mg/Kg	☼	09/20/21 14:20	09/20/21 15:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-6
Date Collected: 09/14/21 14:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-8
Matrix: Solid
Percent Solids: 70.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	77	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2,4,5-Trichlorophenol	ND		240	64	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2,4,6-Trichlorophenol	ND		240	47	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2,4-Dichlorophenol	ND		240	25	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2,4-Dimethylphenol	ND		240	57	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2,4-Dinitrophenol	ND		2300	1100	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2,4-Dinitrotoluene	ND		240	49	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2,6-Dinitrotoluene	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2-Chloronaphthalene	ND		240	39	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2-Chlorophenol	ND		460	43	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2-Methylnaphthalene	ND		240	47	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2-Methylphenol	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2-Nitroaniline	ND		460	35	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
2-Nitrophenol	ND		240	67	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
3,3'-Dichlorobenzidine	ND		460	280	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
3-Nitroaniline	ND		460	66	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4,6-Dinitro-2-methylphenol	ND		460	240	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4-Bromophenyl phenyl ether	ND		240	33	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4-Chloro-3-methylphenol	ND		240	59	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4-Chloroaniline	ND		240	59	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4-Chlorophenyl phenyl ether	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4-Methylphenol	ND		460	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4-Nitroaniline	ND		460	120	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
4-Nitrophenol	ND		460	170	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Acenaphthene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Acenaphthylene	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Acetophenone	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Anthracene	ND		240	59	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Atrazine	ND		240	82	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Benzaldehyde	ND		240	190	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Benzo[a]anthracene	ND		240	24	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Benzo[a]pyrene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Benzo[b]fluoranthene	ND		240	38	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Benzo[g,h,i]perylene	ND		240	25	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Benzo[k]fluoranthene	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Biphenyl	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
bis (2-chloroisopropyl) ether	ND		240	47	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Bis(2-chloroethoxy)methane	ND		240	50	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Bis(2-chloroethyl)ether	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Bis(2-ethylhexyl) phthalate	ND		240	81	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Butyl benzyl phthalate	ND		240	39	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Caprolactam	ND		240	71	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Carbazole	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Chrysene	ND		240	53	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Dibenz(a,h)anthracene	ND		240	42	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Dibenzofuran	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Diethyl phthalate	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Dimethyl phthalate	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Di-n-butyl phthalate	ND		240	40	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1

Client Sample ID: SS-6
Lab Sample ID: 480-189621-8
Date Collected: 09/14/21 14:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 70.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Fluoranthene	**53**	**J**	240	25	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Fluorene	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Hexachlorobenzene	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Hexachlorobutadiene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Hexachlorocyclopentadiene	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Hexachloroethane	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Indeno[1,2,3-cd]pyrene	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Isophorone	ND		240	50	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Naphthalene	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Nitrobenzene	ND		240	27	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
N-Nitrosodi-n-propylamine	ND		240	40	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
N-Nitrosodiphenylamine	ND		240	190	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Pentachlorophenol	ND		460	240	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Phenanthrene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Phenol	ND		240	36	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1
Pyrene	**34**	**J**	240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*54 - 120*	*09/20/21 07:47*	*09/22/21 04:40*	*1*
2-Fluorobiphenyl	*96*		*60 - 120*	*09/20/21 07:47*	*09/22/21 04:40*	*1*
2-Fluorophenol	*65*		*52 - 120*	*09/20/21 07:47*	*09/22/21 04:40*	*1*
Nitrobenzene-d5	*77*		*53 - 120*	*09/20/21 07:47*	*09/22/21 04:40*	*1*
Phenol-d5	*65*		*54 - 120*	*09/20/21 07:47*	*09/22/21 04:40*	*1*
p-Terphenyl-d14	*109*		*79 - 130*	*09/20/21 07:47*	*09/22/21 04:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.3	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
4,4'-DDE	**1.6**	**J**	2.3	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
4,4'-DDT	ND		2.3	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Aldrin	ND		2.3	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
alpha-BHC	ND		2.3	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
beta-BHC	**0.99**	**J B**	2.3	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
cis-Chlordane	ND		2.3	1.2	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
delta-BHC	ND		2.3	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Dieldrin	ND		2.3	0.56	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Endosulfan I	ND		2.3	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Endosulfan II	ND		2.3	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Endosulfan sulfate	ND		2.3	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Endrin	ND		2.3	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Endrin aldehyde	ND		2.3	0.60	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Endrin ketone	ND		2.3	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
gamma-BHC (Lindane)	ND		2.3	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Heptachlor	ND		2.3	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Heptachlor epoxide	ND		2.3	0.60	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Methoxychlor	**1.5**	**J**	2.3	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
Toxaphene	ND		23	14	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1
trans-Chlordane	ND		2.3	0.74	ug/Kg	☼	09/21/21 08:39	09/22/21 12:44	1

Client Sample ID: SS-6
Date Collected: 09/14/21 14:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-8
Matrix: Solid
Percent Solids: 70.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		45 - 120	09/21/21 08:39	09/22/21 12:44	1
DCB Decachlorobiphenyl	90		45 - 120	09/21/21 08:39	09/22/21 12:44	1
Tetrachloro-m-xylene	70		30 - 124	09/21/21 08:39	09/22/21 12:44	1
Tetrachloro-m-xylene	63		30 - 124	09/21/21 08:39	09/22/21 12:44	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	☼	09/16/21 14:59	09/17/21 14:54	1
PCB-1221	ND		0.28	0.055	mg/Kg	☼	09/16/21 14:59	09/17/21 14:54	1
PCB-1232	ND		0.28	0.055	mg/Kg	☼	09/16/21 14:59	09/17/21 14:54	1
PCB-1242	ND		0.28	0.055	mg/Kg	☼	09/16/21 14:59	09/17/21 14:54	1
PCB-1248	ND		0.28	0.055	mg/Kg	☼	09/16/21 14:59	09/17/21 14:54	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 14:54	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		60 - 154	09/16/21 14:59	09/17/21 14:54	1
Tetrachloro-m-xylene	113		60 - 154	09/16/21 14:59	09/17/21 14:54	1
DCB Decachlorobiphenyl	153		65 - 174	09/16/21 14:59	09/17/21 14:54	1
DCB Decachlorobiphenyl	121		65 - 174	09/16/21 14:59	09/17/21 14:54	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		23	7.5	ug/Kg	☼	09/21/21 06:53	09/23/21 20:34	1
2,4-D	ND		23	15	ug/Kg	☼	09/21/21 06:53	09/23/21 20:34	1
Silvex (2,4,5-TP)	ND		23	8.4	ug/Kg	☼	09/21/21 06:53	09/23/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	71		28 - 129	09/21/21 06:53	09/23/21 20:34	1
2,4-Dichlorophenylacetic acid	81		28 - 129	09/21/21 06:53	09/23/21 20:34	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.41**	**J**	0.71	0.23	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluoropentanoic acid (PFPeA)	**0.13**	**J**	0.29	0.056	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorohexanoic acid (PFHxA)	**0.17**	**J**	0.29	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluoroheptanoic acid (PFHpA)	**0.13**	**J**	0.29	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorooctanoic acid (PFOA)	**0.48**		0.29	0.036	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorononanoic acid (PFNA)	**0.14**	**J**	0.29	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorodecanoic acid (PFDA)	**0.038**	**J B**	0.29	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluoroundecanoic acid (PFUnA)	**0.074**	**J**	0.29	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorododecanoic acid (PFDoA)	ND		0.29	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorotridecanoic acid (PFTriA)	**0.024**	**J**	0.29	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.033	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorobutanesulfonic acid (PFBS)	**0.023**	**J B**	0.29	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorohexanesulfonic acid (PFHxS)	**0.030**	**J B**	0.29	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.29	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-6
Date Collected: 09/14/21 14:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-8
Matrix: Solid
Percent Solids: 70.2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.58**	**I B**	0.29	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.29	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.29	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.9	0.053	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.9	0.066	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	0.044	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.9	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C4 PFHpA	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C4 PFOA	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C4 PFOS	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C5 PFNA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C4 PFBA	*82*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C2 PFHxA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C2 PFDA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C2 PFUnA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C2 PFDoA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C8 FOSA	*79*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C5 PFPeA	*84*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C2 PFTeDA	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
d3-NMeFOSAA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
d5-NEtFOSAA	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
M2-6:2 FTS	*115*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
M2-8:2 FTS	*106*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*
13C3 PFBS	*93*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22700**		14.5	6.4	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Antimony	**1.7**	**J**	21.7	0.58	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Arsenic	**6.6**		2.9	0.58	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Barium	**88.9**		0.72	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Beryllium	**1.0**		0.29	0.041	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Cadmium	**0.53**		0.29	0.043	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Calcium	**2210**	**B**	72.5	4.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Chromium	**29.3**		0.72	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Cobalt	**11.8**		0.72	0.072	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Copper	**18.3**		1.4	0.30	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Iron	**30100**		14.5	5.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Lead	**30.8**		1.4	0.35	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Magnesium	**3910**		29.0	1.3	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Manganese	**639**	**B**	0.29	0.046	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Nickel	**28.8**		7.2	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Potassium	**3090**		43.5	29.0	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Selenium	**3.0**	**J**	5.8	0.58	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-6
Lab Sample ID: 480-189621-8
Date Collected: 09/14/21 14:30
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 70.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.87	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Sodium	**76.3**	**J**	203	18.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Thallium	ND		8.7	0.43	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Vanadium	**42.8**		0.72	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1
Zinc	**124**		2.9	0.93	mg/Kg	☼	09/17/21 15:27	09/21/21 00:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.037	0.0085	mg/Kg	☼	09/20/21 14:20	09/20/21 15:58	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-7
Date Collected: 09/14/21 13:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-9
Matrix: Solid
Percent Solids: 68.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	79	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2,4,5-Trichlorophenol	ND		250	66	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2,4,6-Trichlorophenol	ND		250	49	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2,4-Dichlorophenol	ND		250	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2,4-Dimethylphenol	ND		250	59	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2,4-Dinitrophenol	ND		2400	1100	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2,4-Dinitrotoluene	ND		250	51	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2,6-Dinitrotoluene	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2-Chloronaphthalene	ND		250	40	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2-Chlorophenol	ND		480	45	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2-Methylnaphthalene	ND		250	49	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2-Methylphenol	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2-Nitroaniline	ND		480	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
2-Nitrophenol	ND		250	69	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
3,3'-Dichlorobenzidine	ND		480	290	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
3-Nitroaniline	ND		480	68	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4,6-Dinitro-2-methylphenol	ND		480	250	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4-Bromophenyl phenyl ether	ND		250	35	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4-Chloro-3-methylphenol	ND		250	61	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4-Chloroaniline	ND		250	61	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4-Chlorophenyl phenyl ether	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4-Methylphenol	ND		480	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4-Nitroaniline	ND		480	130	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
4-Nitrophenol	ND		480	170	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Acenaphthene	ND		250	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Acenaphthylene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Acetophenone	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Anthracene	ND		250	61	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Atrazine	ND		250	85	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Benzaldehyde	ND		250	190	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Benzo[a]anthracene	ND		250	25	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Benzo[a]pyrene	ND		250	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Benzo[b]fluoranthene	ND		250	39	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Benzo[g,h,i]perylene	ND		250	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Benzo[k]fluoranthene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Biphenyl	ND		250	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
bis (2-chloroisopropyl) ether	ND		250	49	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Bis(2-chloroethoxy)methane	ND		250	52	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Bis(2-chloroethyl)ether	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Bis(2-ethylhexyl) phthalate	ND		250	84	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Butyl benzyl phthalate	ND		250	40	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Caprolactam	ND		250	74	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Carbazole	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Chrysene	ND		250	55	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Dibenz(a,h)anthracene	ND		250	43	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Dibenzofuran	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Diethyl phthalate	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Dimethyl phthalate	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Di-n-butyl phthalate	ND		250	42	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-7
Lab Sample ID: 480-189621-9
Date Collected: 09/14/21 13:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 68.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Fluoranthene	**40**	**J**	250	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Fluorene	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Hexachlorobenzene	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Hexachlorobutadiene	ND		250	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Hexachlorocyclopentadiene	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Hexachloroethane	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Indeno[1,2,3-cd]pyrene	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Isophorone	ND		250	52	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Naphthalene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Nitrobenzene	ND		250	27	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
N-Nitrosodi-n-propylamine	ND		250	42	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
N-Nitrosodiphenylamine	ND		250	200	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Pentachlorophenol	ND		480	250	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Phenanthrene	ND		250	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Phenol	ND		250	38	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1
Pyrene	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*115*		*54 - 120*	*09/20/21 07:47*	*09/22/21 05:04*	*1*
2-Fluorobiphenyl	*102*		*60 - 120*	*09/20/21 07:47*	*09/22/21 05:04*	*1*
2-Fluorophenol	*68*		*52 - 120*	*09/20/21 07:47*	*09/22/21 05:04*	*1*
Nitrobenzene-d5	*84*		*53 - 120*	*09/20/21 07:47*	*09/22/21 05:04*	*1*
Phenol-d5	*70*		*54 - 120*	*09/20/21 07:47*	*09/22/21 05:04*	*1*
p-Terphenyl-d14	*119*		*79 - 130*	*09/20/21 07:47*	*09/22/21 05:04*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.4	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
4,4'-DDE	ND		2.4	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
4,4'-DDT	**1.8**	**J**	2.4	0.56	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Aldrin	ND		2.4	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
alpha-BHC	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
beta-BHC	**1.1**	**J B**	2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
cis-Chlordane	ND		2.4	1.2	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
delta-BHC	ND		2.4	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Dieldrin	ND		2.4	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Endosulfan I	ND		2.4	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Endosulfan II	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Endosulfan sulfate	ND		2.4	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Endrin	ND		2.4	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Endrin aldehyde	ND		2.4	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Endrin ketone	ND		2.4	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
gamma-BHC (Lindane)	ND		2.4	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Heptachlor	ND		2.4	0.52	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Heptachlor epoxide	ND		2.4	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Methoxychlor	**2.2**	**J**	2.4	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
Toxaphene	ND		24	14	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1
trans-Chlordane	ND		2.4	0.77	ug/Kg	☼	09/21/21 08:39	09/22/21 13:04	1

Client Sample ID: SS-7
Date Collected: 09/14/21 13:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-9
Matrix: Solid
Percent Solids: 68.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		45 - 120	09/21/21 08:39	09/22/21 13:04	1
DCB Decachlorobiphenyl	95		45 - 120	09/21/21 08:39	09/22/21 13:04	1
Tetrachloro-m-xylene	75		30 - 124	09/21/21 08:39	09/22/21 13:04	1
Tetrachloro-m-xylene	74		30 - 124	09/21/21 08:39	09/22/21 13:04	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	☼	09/16/21 14:59	09/17/21 15:07	1
PCB-1221	ND		0.30	0.059	mg/Kg	☼	09/16/21 14:59	09/17/21 15:07	1
PCB-1232	ND		0.30	0.059	mg/Kg	☼	09/16/21 14:59	09/17/21 15:07	1
PCB-1242	ND		0.30	0.059	mg/Kg	☼	09/16/21 14:59	09/17/21 15:07	1
PCB-1248	ND		0.30	0.059	mg/Kg	☼	09/16/21 14:59	09/17/21 15:07	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	09/16/21 14:59	09/17/21 15:07	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	09/16/21 14:59	09/17/21 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	128		60 - 154	09/16/21 14:59	09/17/21 15:07	1
Tetrachloro-m-xylene	127		60 - 154	09/16/21 14:59	09/17/21 15:07	1
DCB Decachlorobiphenyl	177	S1+	65 - 174	09/16/21 14:59	09/17/21 15:07	1
DCB Decachlorobiphenyl	137		65 - 174	09/16/21 14:59	09/17/21 15:07	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		25	7.8	ug/Kg	☼	09/21/21 06:53	09/23/21 21:03	1
2,4-D	ND		25	15	ug/Kg	☼	09/21/21 06:53	09/23/21 21:03	1
Silvex (2,4,5-TP)	ND		25	8.8	ug/Kg	☼	09/21/21 06:53	09/23/21 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	71		28 - 129	09/21/21 06:53	09/23/21 21:03	1
2,4-Dichlorophenylacetic acid	79		28 - 129	09/21/21 06:53	09/23/21 21:03	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.71	0.23	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluoropentanoic acid (PFPeA)	ND		0.28	0.055	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorohexanoic acid (PFHxA)	**0.16**	**J I**	0.28	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluoroheptanoic acid (PFHpA)	**0.063**	**J**	0.28	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorooctanoic acid (PFOA)	**0.21**	**J**	0.28	0.035	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorononanoic acid (PFNA)	**0.10**	**J**	0.28	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorodecanoic acid (PFDA)	**0.056**	**J B**	0.28	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluoroundecanoic acid (PFUnA)	**0.075**	**J**	0.28	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorododecanoic acid (PFDoA)	ND		0.28	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorotridecanoic acid (PFTriA)	**0.029**	**J**	0.28	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.28	0.033	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorobutanesulfonic acid (PFBS)	**0.017**	**J B**	0.28	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorohexanesulfonic acid (PFHxS)	**0.028**	**J B**	0.28	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.28	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-7
Date Collected: 09/14/21 13:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-9
Matrix: Solid
Percent Solids: 68.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.48**	**I B**	0.28	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.28	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.28	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.8	0.052	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.8	0.065	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.8	0.044	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.8	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C4 PFHpA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C4 PFOA	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C4 PFOS	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C5 PFNA	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C4 PFBA	*73*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C2 PFHxA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C2 PFDA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C2 PFUnA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C2 PFDoA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C8 FOSA	*70*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C5 PFPeA	*80*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C2 PFTeDA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
d3-NMeFOSAA	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
d5-NEtFOSAA	*102*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
M2-6:2 FTS	*122*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
M2-8:2 FTS	*134*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*
13C3 PFBS	*86*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		13.9	6.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Antimony	**1.4**	**J**	20.9	0.56	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Arsenic	**5.2**		2.8	0.56	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Barium	**60.6**		0.70	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Beryllium	**0.72**		0.28	0.039	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Cadmium	**0.42**		0.28	0.042	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Calcium	**2840**	**B**	69.7	4.6	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Chromium	**27.4**		0.70	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Cobalt	**12.3**		0.70	0.070	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Copper	**18.2**		1.4	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Iron	**26000**		13.9	4.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Lead	**34.7**		1.4	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Magnesium	**4090**		27.9	1.3	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Manganese	**645**	**B**	0.28	0.045	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Nickel	**26.9**		7.0	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Potassium	**2270**		41.8	27.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Selenium	**2.6**	**J**	5.6	0.56	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-7
Lab Sample ID: 480-189621-9
Date Collected: 09/14/21 13:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 68.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.84	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Sodium	**71.5**	**J**	195	18.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Thallium	ND		8.4	0.42	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Vanadium	**35.4**		0.70	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1
Zinc	**93.1**		2.8	0.89	mg/Kg	☼	09/17/21 15:27	09/21/21 00:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.043	0.0099	mg/Kg	☼	09/20/21 14:20	09/20/21 16:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-8
Date Collected: 09/14/21 13:15
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-10
Matrix: Solid
Percent Solids: 75.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	71	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2,4,5-Trichlorophenol	ND		220	59	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2,4-Dimethylphenol	ND		220	53	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2,4-Dinitrophenol	ND		2100	1000	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2,4-Dinitrotoluene	ND		220	45	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2-Chloronaphthalene	ND		220	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2-Chlorophenol	ND		420	40	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2-Methylnaphthalene	ND		220	44	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2-Methylphenol	ND		220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2-Nitroaniline	ND		420	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
2-Nitrophenol	ND		220	62	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
3,3'-Dichlorobenzidine	ND		420	260	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
3-Nitroaniline	ND		420	61	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4,6-Dinitro-2-methylphenol	ND		420	220	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4-Chloro-3-methylphenol	ND		220	54	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4-Chloroaniline	ND		220	54	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4-Methylphenol	ND		420	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4-Nitroaniline	ND		420	110	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
4-Nitrophenol	ND		420	150	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Acenaphthene	ND		220	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Acenaphthylene	ND		220	28	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Acetophenone	ND		220	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Anthracene	ND		220	54	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Atrazine	ND		220	76	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Benzaldehyde	ND		220	170	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Benzo[a]anthracene	ND		220	22	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Benzo[a]pyrene	**60**	**J**	220	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Benzo[b]fluoranthene	**110**	**J**	220	35	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Benzo[g,h,i]perylene	**78**	**J**	220	23	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Benzo[k]fluoranthene	**33**	**J**	220	28	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Biphenyl	ND		220	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Bis(2-chloroethoxy)methane	ND		220	46	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Bis(2-chloroethyl)ether	ND		220	28	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Bis(2-ethylhexyl) phthalate	ND		220	75	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Caprolactam	ND		220	66	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Carbazole	ND		220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Chrysene	ND		220	49	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Dibenzofuran	ND		220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Diethyl phthalate	ND		220	28	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Dimethyl phthalate	ND		220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Di-n-butyl phthalate	ND		220	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1

Client Sample ID: SS-8
Lab Sample ID: 480-189621-10
Date Collected: 09/14/21 13:15
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 75.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Fluoranthene	**150**	**J**	220	23	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Fluorene	ND		220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Hexachlorobutadiene	ND		220	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Hexachloroethane	ND		220	28	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Indeno[1,2,3-cd]pyrene	**65**	**J**	220	27	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Isophorone	ND		220	46	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Naphthalene	ND		220	28	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Nitrobenzene	ND		220	24	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
N-Nitrosodi-n-propylamine	ND		220	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Pentachlorophenol	ND		420	220	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Phenanthrene	**57**	**J**	220	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Phenol	ND		220	33	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1
Pyrene	**120**	**J**	220	26	ug/Kg	☼	09/20/21 07:47	09/22/21 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*54 - 120*	*09/20/21 07:47*	*09/22/21 05:28*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*09/20/21 07:47*	*09/22/21 05:28*	*1*
2-Fluorophenol	*66*		*52 - 120*	*09/20/21 07:47*	*09/22/21 05:28*	*1*
Nitrobenzene-d5	*78*		*53 - 120*	*09/20/21 07:47*	*09/22/21 05:28*	*1*
Phenol-d5	*68*		*54 - 120*	*09/20/21 07:47*	*09/22/21 05:28*	*1*
p-Terphenyl-d14	*98*		*79 - 130*	*09/20/21 07:47*	*09/22/21 05:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
4,4'-DDE	**3.7**		2.2	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
4,4'-DDT	**2.8**		2.2	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Aldrin	ND		2.2	0.54	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
alpha-BHC	ND		2.2	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
beta-BHC	**1.3**	**J B**	2.2	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
cis-Chlordane	ND		2.2	1.1	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
delta-BHC	ND		2.2	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Dieldrin	ND		2.2	0.53	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Endosulfan I	ND		2.2	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Endosulfan II	ND		2.2	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Endosulfan sulfate	ND		2.2	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Endrin	ND		2.2	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Endrin aldehyde	ND		2.2	0.56	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Endrin ketone	ND		2.2	0.54	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
gamma-BHC (Lindane)	ND		2.2	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Heptachlor	ND		2.2	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Heptachlor epoxide	ND		2.2	0.57	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Methoxychlor	**2.0**	**J**	2.2	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
Toxaphene	ND		22	13	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1
trans-Chlordane	ND		2.2	0.70	ug/Kg	☼	09/21/21 08:39	09/22/21 13:23	1

Client Sample ID: SS-8
Date Collected: 09/14/21 13:15
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-10
Matrix: Solid
Percent Solids: 75.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*45 - 120*	*09/21/21 08:39*	*09/22/21 13:23*	*1*
DCB Decachlorobiphenyl	*157*	*S1+*	*45 - 120*	*09/21/21 08:39*	*09/22/21 13:23*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*09/21/21 08:39*	*09/22/21 13:23*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*09/21/21 08:39*	*09/22/21 13:23*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	09/16/21 14:59	09/17/21 15:19	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	09/16/21 14:59	09/17/21 15:19	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	09/16/21 14:59	09/17/21 15:19	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	09/16/21 14:59	09/17/21 15:19	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	09/16/21 14:59	09/17/21 15:19	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 15:19	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*128*		*60 - 154*	*09/16/21 14:59*	*09/17/21 15:19*	*1*
Tetrachloro-m-xylene	*121*		*60 - 154*	*09/16/21 14:59*	*09/17/21 15:19*	*1*
DCB Decachlorobiphenyl	*173*		*65 - 174*	*09/16/21 14:59*	*09/17/21 15:19*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*09/16/21 14:59*	*09/17/21 15:19*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	7.0	ug/Kg	☼	09/21/21 06:53	09/23/21 21:33	1
2,4-D	ND		22	14	ug/Kg	☼	09/21/21 06:53	09/23/21 21:33	1
Silvex (2,4,5-TP)	ND		22	7.9	ug/Kg	☼	09/21/21 06:53	09/23/21 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*09/21/21 06:53*	*09/23/21 21:33*	*1*
2,4-Dichlorophenylacetic acid	*82*		*28 - 129*	*09/21/21 06:53*	*09/23/21 21:33*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.22**	**J**	0.64	0.20	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluoropentanoic acid (PFPeA)	**0.068**	**J**	0.25	0.050	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorohexanoic acid (PFHxA)	**0.13**	**J**	0.25	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluoroheptanoic acid (PFHpA)	**0.11**	**J**	0.25	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorooctanoic acid (PFOA)	**0.33**		0.25	0.032	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorononanoic acid (PFNA)	**0.16**	**J**	0.25	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorodecanoic acid (PFDA)	**0.074**	**J B**	0.25	0.015	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluoroundecanoic acid (PFUnA)	**0.091**	**J**	0.25	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorododecanoic acid (PFDoA)	**0.033**	**J**	0.25	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorotridecanoic acid (PFTriA)	**0.036**	**J**	0.25	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.25	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorobutanesulfonic acid (PFBS)	**0.026**	**J B**	0.25	0.012	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorohexanesulfonic acid (PFHxS)	**0.034**	**J B**	0.25	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.25	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1

Client Sample ID: SS-8
Lab Sample ID: 480-189621-10
Date Collected: 09/14/21 13:15
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 75.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.64**	**I B**	0.25	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.25	0.015	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.25	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.5	0.047	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.5	0.059	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.5	0.039	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.5	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 07:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C4 PFHpA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C4 PFOA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C4 PFOS	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C5 PFNA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C4 PFBA	*74*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C2 PFHxA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C2 PFDA	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C2 PFUnA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C2 PFDoA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C8 FOSA	*76*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C5 PFPeA	*77*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C2 PFTeDA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
d3-NMeFOSAA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
d5-NEtFOSAA	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
M2-6:2 FTS	*105*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
M2-8:2 FTS	*114*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*
13C3 PFBS	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20200**		13.8	6.1	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Antimony	**1.2**	**J**	20.7	0.55	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Arsenic	**5.8**		2.8	0.55	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Barium	**72.5**		0.69	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Beryllium	**0.76**		0.28	0.039	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Cadmium	**0.63**		0.28	0.041	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Calcium	**1430**	**B**	68.8	4.5	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Chromium	**28.6**		0.69	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Cobalt	**16.9**		0.69	0.069	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Copper	**15.5**		1.4	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Iron	**24700**		13.8	4.8	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Lead	**56.5**		1.4	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Magnesium	**3600**		27.5	1.3	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Manganese	**1380**	**B**	0.28	0.044	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Nickel	**25.9**		6.9	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Potassium	**2350**		41.3	27.5	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Selenium	**2.7**	**J**	5.5	0.55	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-8
Lab Sample ID: 480-189621-10
Date Collected: 09/14/21 13:15
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 75.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.83	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Sodium	**60.7**	**J**	193	17.9	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Thallium	ND		8.3	0.41	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Vanadium	**37.9**		0.69	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1
Zinc	**123**		2.8	0.88	mg/Kg	☼	09/17/21 15:27	09/21/21 00:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.074**		0.032	0.0073	mg/Kg	☼	09/20/21 14:20	09/20/21 16:01	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-9
Date Collected: 09/14/21 14:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-11
Matrix: Solid
Percent Solids: 66.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		150	81	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2,4,5-Trichlorophenol	ND		250	68	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2,4,6-Trichlorophenol	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2,4-Dichlorophenol	ND		250	27	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2,4-Dimethylphenol	ND		250	60	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2,4-Dinitrophenol	ND		2400	1200	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2,4-Dinitrotoluene	ND		250	52	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2,6-Dinitrotoluene	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2-Chloronaphthalene	ND		250	41	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2-Chlorophenol	ND		490	46	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2-Methylnaphthalene	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2-Methylphenol	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2-Nitroaniline	ND		490	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
2-Nitrophenol	ND		250	71	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
3,3'-Dichlorobenzidine	ND		490	300	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
3-Nitroaniline	ND		490	69	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4,6-Dinitro-2-methylphenol	ND		490	250	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4-Bromophenyl phenyl ether	ND		250	35	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4-Chloro-3-methylphenol	ND		250	62	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4-Chloroaniline	ND		250	62	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4-Chlorophenyl phenyl ether	ND		250	31	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4-Methylphenol	ND		490	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4-Nitroaniline	ND		490	130	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
4-Nitrophenol	ND		490	180	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Acenaphthene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Acenaphthylene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Acetophenone	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Anthracene	ND		250	62	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Atrazine	ND		250	87	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Benzaldehyde	ND		250	200	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Benzo[a]anthracene	**100**	**J**	250	25	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Benzo[a]pyrene	**110**	**J**	250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Benzo[b]fluoranthene	**160**	**J**	250	40	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Benzo[g,h,i]perylene	**130**	**J**	250	27	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Benzo[k]fluoranthene	**60**	**J**	250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Biphenyl	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
bis (2-chloroisopropyl) ether	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Bis(2-chloroethoxy)methane	ND		250	53	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Bis(2-chloroethyl)ether	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Bis(2-ethylhexyl) phthalate	ND		250	86	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Butyl benzyl phthalate	ND		250	41	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Caprolactam	ND		250	75	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Carbazole	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Chrysene	**130**	**J**	250	56	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Dibenz(a,h)anthracene	ND		250	44	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Dibenzofuran	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Diethyl phthalate	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Dimethyl phthalate	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Di-n-butyl phthalate	ND		250	43	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-9
Date Collected: 09/14/21 14:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-11
Matrix: Solid
Percent Solids: 66.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Fluoranthene	**260**		250	27	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Fluorene	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Hexachlorobenzene	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Hexachlorobutadiene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Hexachlorocyclopentadiene	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Hexachloroethane	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Indeno[1,2,3-cd]pyrene	**120**	**J**	250	31	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Isophorone	ND		250	53	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Naphthalene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Nitrobenzene	ND		250	28	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
N-Nitrosodi-n-propylamine	ND		250	43	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
N-Nitrosodiphenylamine	ND		250	200	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Pentachlorophenol	ND		490	250	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Phenanthrene	**86**	**J**	250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Phenol	ND		250	38	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1
Pyrene	**190**	**J**	250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*54 - 120*	*09/20/21 07:47*	*09/22/21 05:52*	*1*
2-Fluorobiphenyl	*92*		*60 - 120*	*09/20/21 07:47*	*09/22/21 05:52*	*1*
2-Fluorophenol	*69*		*52 - 120*	*09/20/21 07:47*	*09/22/21 05:52*	*1*
Nitrobenzene-d5	*79*		*53 - 120*	*09/20/21 07:47*	*09/22/21 05:52*	*1*
Phenol-d5	*69*		*54 - 120*	*09/20/21 07:47*	*09/22/21 05:52*	*1*
p-Terphenyl-d14	*95*		*79 - 130*	*09/20/21 07:47*	*09/22/21 05:52*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.5	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
4,4'-DDE	**5.4**		2.5	0.53	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
4,4'-DDT	**3.6**		2.5	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Aldrin	ND		2.5	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
alpha-BHC	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
beta-BHC	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
cis-Chlordane	ND		2.5	1.2	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
delta-BHC	ND		2.5	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Dieldrin	ND		2.5	0.60	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Endosulfan I	ND		2.5	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Endosulfan II	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Endosulfan sulfate	ND		2.5	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Endrin	ND		2.5	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Endrin aldehyde	**1.3**	**J**	2.5	0.64	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Endrin ketone	ND		2.5	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
gamma-BHC (Lindane)	ND		2.5	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Heptachlor	ND		2.5	0.54	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Heptachlor epoxide	ND		2.5	0.65	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Methoxychlor	**2.3**	**J**	2.5	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
Toxaphene	ND		25	15	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1
trans-Chlordane	ND		2.5	0.80	ug/Kg	☼	09/21/21 08:39	09/22/21 13:43	1

Client Sample ID: SS-9
Date Collected: 09/14/21 14:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-11
Matrix: Solid
Percent Solids: 66.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		45 - 120	09/21/21 08:39	09/22/21 13:43	1
DCB Decachlorobiphenyl	355	S1+	45 - 120	09/21/21 08:39	09/22/21 13:43	1
Tetrachloro-m-xylene	65		30 - 124	09/21/21 08:39	09/22/21 13:43	1
Tetrachloro-m-xylene	56		30 - 124	09/21/21 08:39	09/22/21 13:43	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.34	0.066	mg/Kg	☼	09/16/21 14:59	09/17/21 15:32	1
PCB-1221	ND		0.34	0.066	mg/Kg	☼	09/16/21 14:59	09/17/21 15:32	1
PCB-1232	ND		0.34	0.066	mg/Kg	☼	09/16/21 14:59	09/17/21 15:32	1
PCB-1242	ND		0.34	0.066	mg/Kg	☼	09/16/21 14:59	09/17/21 15:32	1
PCB-1248	ND		0.34	0.066	mg/Kg	☼	09/16/21 14:59	09/17/21 15:32	1
PCB-1254	ND		0.34	0.16	mg/Kg	☼	09/16/21 14:59	09/17/21 15:32	1
PCB-1260	ND		0.34	0.16	mg/Kg	☼	09/16/21 14:59	09/17/21 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	121		60 - 154	09/16/21 14:59	09/17/21 15:32	1
Tetrachloro-m-xylene	118		60 - 154	09/16/21 14:59	09/17/21 15:32	1
DCB Decachlorobiphenyl	160		65 - 174	09/16/21 14:59	09/17/21 15:32	1
DCB Decachlorobiphenyl	123		65 - 174	09/16/21 14:59	09/17/21 15:32	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		25	7.9	ug/Kg	☼	09/21/21 06:53	09/23/21 22:03	1
2,4-D	ND		25	16	ug/Kg	☼	09/21/21 06:53	09/23/21 22:03	1
Silvex (2,4,5-TP)	ND		25	8.9	ug/Kg	☼	09/21/21 06:53	09/23/21 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	75		28 - 129	09/21/21 06:53	09/23/21 22:03	1
2,4-Dichlorophenylacetic acid	72		28 - 129	09/21/21 06:53	09/23/21 22:03	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.28**	**J**	0.73	0.24	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluoropentanoic acid (PFPeA)	**0.073**	**J**	0.29	0.057	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorohexanoic acid (PFHxA)	**0.14**	**J I**	0.29	0.032	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluoroheptanoic acid (PFHpA)	**0.095**	**J**	0.29	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorooctanoic acid (PFOA)	**0.25**	**J**	0.29	0.037	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorononanoic acid (PFNA)	**0.15**	**J**	0.29	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorodecanoic acid (PFDA)	**0.11**	**J B**	0.29	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluoroundecanoic acid (PFUnA)	**0.17**	**J**	0.29	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorododecanoic acid (PFDoA)	**0.054**	**J**	0.29	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorotridecanoic acid (PFTriA)	**0.054**	**J**	0.29	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.034	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorobutanesulfonic acid (PFBS)	**0.035**	**J B**	0.29	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorohexanesulfonic acid (PFHxS)	**0.027**	**J B**	0.29	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.29	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-9
Date Collected: 09/14/21 14:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-11
Matrix: Solid
Percent Solids: 66.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.77**	**I B**	0.29	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.29	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.29	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.9	0.054	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.9	0.067	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	0.045	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.9	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C4 PFHpA	*69*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C4 PFOA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C4 PFOS	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C5 PFNA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C4 PFBA	*68*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C2 PFHxA	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C2 PFDA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C2 PFUnA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C2 PFDoA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C8 FOSA	*66*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C5 PFPeA	*73*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C2 PFTeDA	*69*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
d3-NMeFOSAA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
d5-NEtFOSAA	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
M2-6:2 FTS	*134*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
M2-8:2 FTS	*140*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*
13C3 PFBS	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22400**		15.9	7.0	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Antimony	**1.6**	**J**	23.8	0.64	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Arsenic	**6.2**		3.2	0.64	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Barium	**98.3**		0.79	0.17	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Beryllium	**1.1**		0.32	0.044	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Cadmium	**1.1**		0.32	0.048	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Calcium	**3220**	**B**	79.4	5.2	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Chromium	**31.9**		0.79	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Cobalt	**42.1**		0.79	0.079	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Copper	**20.3**		1.6	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Iron	**27800**		15.9	5.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Lead	**86.4**		1.6	0.38	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Magnesium	**4080**		31.8	1.5	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Manganese	**1240**	**B**	0.32	0.051	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Nickel	**39.2**		7.9	0.37	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Potassium	**3080**		47.6	31.8	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Selenium	**2.0**	**J**	6.4	0.64	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-9
Lab Sample ID: 480-189621-11
Date Collected: 09/14/21 14:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 66.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.95	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Sodium	**88.8**	**J**	222	20.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Thallium	ND		9.5	0.48	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Vanadium	**41.1**		0.79	0.17	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1
Zinc	**165**		3.2	1.0	mg/Kg	☼	09/17/21 15:27	09/21/21 01:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.047	0.011	mg/Kg	☼	09/20/21 14:20	09/20/21 16:02	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-10
Date Collected: 09/14/21 14:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-12
Matrix: Solid
Percent Solids: 65.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		150	84	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2,4,5-Trichlorophenol	ND		260	70	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2,4,6-Trichlorophenol	ND		260	52	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2,4-Dichlorophenol	ND		260	27	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2,4-Dimethylphenol	ND		260	62	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2,4-Dinitrophenol	ND		2500	1200	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2,4-Dinitrotoluene	ND		260	53	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2,6-Dinitrotoluene	ND		260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2-Chloronaphthalene	ND		260	43	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2-Chlorophenol	ND		500	47	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2-Methylnaphthalene	ND		260	52	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2-Methylphenol	ND		260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2-Nitroaniline	ND		500	38	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
2-Nitrophenol	ND		260	73	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
3,3'-Dichlorobenzidine	ND		500	300	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
3-Nitroaniline	ND		500	72	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4,6-Dinitro-2-methylphenol	ND		500	260	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4-Bromophenyl phenyl ether	ND		260	37	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4-Chloro-3-methylphenol	ND		260	64	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4-Chloroaniline	ND		260	64	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4-Chlorophenyl phenyl ether	ND		260	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4-Methylphenol	ND		500	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4-Nitroaniline	ND		500	140	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
4-Nitrophenol	ND		500	180	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Acenaphthene	ND		260	38	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Acenaphthylene	ND		260	33	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Acetophenone	ND		260	35	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Anthracene	ND		260	64	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Atrazine	ND		260	90	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Benzaldehyde	ND		260	210	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Benzo[a]anthracene	ND		260	26	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Benzo[a]pyrene	ND		260	38	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Benzo[b]fluoranthene	**64**	**J**	260	41	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Benzo[g,h,i]perylene	**52**	**J**	260	27	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Benzo[k]fluoranthene	ND		260	33	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Biphenyl	ND		260	38	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
bis (2-chloroisopropyl) ether	ND		260	52	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Bis(2-chloroethoxy)methane	ND		260	55	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Bis(2-chloroethyl)ether	ND		260	33	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Bis(2-ethylhexyl) phthalate	ND		260	88	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Butyl benzyl phthalate	ND		260	43	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Caprolactam	ND		260	78	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Carbazole	ND		260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Chrysene	ND		260	58	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Dibenz(a,h)anthracene	ND		260	46	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Dibenzofuran	ND		260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Diethyl phthalate	ND		260	33	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Dimethyl phthalate	ND		260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Di-n-butyl phthalate	ND		260	44	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-10
Date Collected: 09/14/21 14:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-12
Matrix: Solid
Percent Solids: 65.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Fluoranthene	**110**	**J**	260	27	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Fluorene	ND		260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Hexachlorobenzene	ND		260	35	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Hexachlorobutadiene	ND		260	38	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Hexachlorocyclopentadiene	ND		260	35	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Hexachloroethane	ND		260	33	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Indeno[1,2,3-cd]pyrene	**51**	**J**	260	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Isophorone	ND		260	55	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Naphthalene	ND		260	33	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Nitrobenzene	ND		260	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
N-Nitrosodi-n-propylamine	ND		260	44	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
N-Nitrosodiphenylamine	ND		260	210	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Pentachlorophenol	ND		500	260	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Phenanthrene	ND		260	38	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Phenol	ND		260	40	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1
Pyrene	**71**	**J**	260	30	ug/Kg	☼	09/20/21 07:47	09/22/21 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*108*		*54 - 120*	*09/20/21 07:47*	*09/22/21 06:16*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*09/20/21 07:47*	*09/22/21 06:16*	*1*
2-Fluorophenol	*68*		*52 - 120*	*09/20/21 07:47*	*09/22/21 06:16*	*1*
Nitrobenzene-d5	*82*		*53 - 120*	*09/20/21 07:47*	*09/22/21 06:16*	*1*
Phenol-d5	*73*		*54 - 120*	*09/20/21 07:47*	*09/22/21 06:16*	*1*
p-Terphenyl-d14	*99*		*79 - 130*	*09/20/21 07:47*	*09/22/21 06:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**23300**		15.3	6.7	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Antimony	**1.5**	**J**	22.9	0.61	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Arsenic	**8.2**		3.1	0.61	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Barium	**92.0**		0.76	0.17	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Beryllium	**1.1**		0.31	0.043	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Cadmium	**0.69**		0.31	0.046	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Calcium	**2580**	**B**	76.4	5.0	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Chromium	**30.7**		0.76	0.31	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Cobalt	**15.3**		0.76	0.076	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Copper	**18.7**		1.5	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Iron	**31300**		15.3	5.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Lead	**52.6**		1.5	0.37	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Magnesium	**3910**		30.6	1.4	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Manganese	**1080**	**B**	0.31	0.049	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Nickel	**29.9**		7.6	0.35	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Potassium	**3240**		45.8	30.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Selenium	**3.1**	**J**	6.1	0.61	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Silver	ND		0.92	0.31	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Sodium	**88.1**	**J**	214	19.9	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Thallium	ND		9.2	0.46	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Vanadium	**46.6**		0.76	0.17	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1
Zinc	**139**		3.1	0.98	mg/Kg	☼	09/17/21 15:27	09/21/21 01:05	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-10
Lab Sample ID: 480-189621-12
Date Collected: 09/14/21 14:35
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.031	0.0072	mg/Kg	☼	09/20/21 14:20	09/20/21 16:04	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-11
Date Collected: 09/14/21 13:20
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-13
Matrix: Solid
Percent Solids: 67.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		150	80	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2,4,5-Trichlorophenol	ND		250	67	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2,4,6-Trichlorophenol	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2,4-Dichlorophenol	ND		250	26	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2,4-Dimethylphenol	ND		250	60	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2,4-Dinitrophenol	ND		2400	1100	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2,4-Dinitrotoluene	ND		250	51	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2,6-Dinitrotoluene	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2-Chloronaphthalene	ND		250	41	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2-Chlorophenol	ND		480	45	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2-Methylnaphthalene	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2-Methylphenol	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2-Nitroaniline	ND		480	37	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
2-Nitrophenol	ND		250	70	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
3,3'-Dichlorobenzidine	ND		480	290	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
3-Nitroaniline	ND		480	69	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4,6-Dinitro-2-methylphenol	ND		480	250	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4-Bromophenyl phenyl ether	ND		250	35	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4-Chloro-3-methylphenol	ND		250	61	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4-Chloroaniline	ND		250	61	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4-Chlorophenyl phenyl ether	ND		250	31	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4-Methylphenol	ND		480	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4-Nitroaniline	ND		480	130	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
4-Nitrophenol	ND		480	170	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Acenaphthene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Acenaphthylene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Acetophenone	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Anthracene	ND		250	61	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Atrazine	ND		250	86	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Benzaldehyde	ND		250	200	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Benzo[a]anthracene	**36**	**J**	250	25	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Benzo[a]pyrene	**37**	**J**	250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Benzo[b]fluoranthene	**70**	**J**	250	39	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Benzo[g,h,i]perylene	**58**	**J**	250	26	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Benzo[k]fluoranthene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Biphenyl	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
bis (2-chloroisopropyl) ether	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Bis(2-chloroethoxy)methane	ND		250	53	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Bis(2-chloroethyl)ether	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Bis(2-ethylhexyl) phthalate	ND		250	85	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Butyl benzyl phthalate	ND		250	41	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Caprolactam	ND		250	75	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Carbazole	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Chrysene	ND		250	56	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Dibenz(a,h)anthracene	ND		250	44	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Dibenzofuran	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Diethyl phthalate	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Dimethyl phthalate	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Di-n-butyl phthalate	ND		250	42	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-11
Date Collected: 09/14/21 13:20
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-13
Matrix: Solid
Percent Solids: 67.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Fluoranthene	**120**	**J**	250	26	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Fluorene	ND		250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Hexachlorobenzene	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Hexachlorobutadiene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Hexachlorocyclopentadiene	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Hexachloroethane	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Indeno[1,2,3-cd]pyrene	**51**	**J**	250	31	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Isophorone	ND		250	53	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Naphthalene	ND		250	32	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Nitrobenzene	ND		250	28	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
N-Nitrosodi-n-propylamine	ND		250	42	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
N-Nitrosodiphenylamine	ND		250	200	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Pentachlorophenol	ND		480	250	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Phenanthrene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Phenol	ND		250	38	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1
Pyrene	**74**	**J**	250	29	ug/Kg	☼	09/20/21 07:47	09/22/21 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*112*		*54 - 120*	*09/20/21 07:47*	*09/22/21 06:40*	*1*
2-Fluorobiphenyl	*102*		*60 - 120*	*09/20/21 07:47*	*09/22/21 06:40*	*1*
2-Fluorophenol	*68*		*52 - 120*	*09/20/21 07:47*	*09/22/21 06:40*	*1*
Nitrobenzene-d5	*82*		*53 - 120*	*09/20/21 07:47*	*09/22/21 06:40*	*1*
Phenol-d5	*74*		*54 - 120*	*09/20/21 07:47*	*09/22/21 06:40*	*1*
p-Terphenyl-d14	*104*		*79 - 130*	*09/20/21 07:47*	*09/22/21 06:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22400**		14.0	6.2	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Antimony	**1.6**	**J**	21.0	0.56	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Arsenic	**5.6**		2.8	0.56	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Barium	**70.1**		0.70	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Beryllium	**0.77**		0.28	0.039	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Cadmium	**0.44**		0.28	0.042	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Calcium	**1330**	**B**	70.0	4.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Chromium	**31.7**		0.70	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Cobalt	**12.4**		0.70	0.070	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Copper	**16.3**		1.4	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Iron	**29800**		14.0	4.9	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Lead	**30.5**		1.4	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Magnesium	**4510**		28.0	1.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Manganese	**621**	**B**	0.28	0.045	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Nickel	**28.4**		7.0	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Potassium	**3080**		42.0	28.0	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Selenium	**2.6**	**J**	5.6	0.56	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Silver	ND		0.84	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Sodium	**70.8**	**J**	196	18.2	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Thallium	ND		8.4	0.42	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Vanadium	**41.6**		0.70	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1
Zinc	**102**		2.8	0.90	mg/Kg	☼	09/17/21 15:27	09/21/21 01:08	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-11
Lab Sample ID: 480-189621-13
Date Collected: 09/14/21 13:20
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 67.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.028	0.0065	mg/Kg	☼	09/20/21 14:20	09/20/21 16:05	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-12
Date Collected: 09/14/21 14:50
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-14
Matrix: Solid
Percent Solids: 68.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	78	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2,4,5-Trichlorophenol	ND		240	65	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2,4,6-Trichlorophenol	ND		240	48	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2,4-Dichlorophenol	ND		240	26	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2,4-Dimethylphenol	ND		240	58	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2,4-Dinitrophenol	ND		2400	1100	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2,4-Dinitrotoluene	ND		240	50	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2,6-Dinitrotoluene	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2-Chloronaphthalene	ND		240	40	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2-Chlorophenol	ND		470	44	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2-Methylnaphthalene	ND		240	48	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2-Methylphenol	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2-Nitroaniline	ND		470	35	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
2-Nitrophenol	ND		240	68	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
3,3'-Dichlorobenzidine	ND		470	280	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
3-Nitroaniline	ND		470	67	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4,6-Dinitro-2-methylphenol	ND		470	240	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4-Bromophenyl phenyl ether	ND		240	34	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4-Chloro-3-methylphenol	ND		240	60	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4-Chloroaniline	ND		240	60	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4-Chlorophenyl phenyl ether	ND		240	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4-Methylphenol	ND		470	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4-Nitroaniline	ND		470	130	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
4-Nitrophenol	ND		470	170	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Acenaphthene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Acenaphthylene	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Acetophenone	ND		240	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Anthracene	ND		240	60	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Atrazine	ND		240	84	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Benzaldehyde	ND		240	190	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Benzo[a]anthracene	ND		240	24	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Benzo[a]pyrene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Benzo[b]fluoranthene	**69**	**J**	240	38	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Benzo[g,h,i]perylene	**61**	**J**	240	26	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Benzo[k]fluoranthene	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Biphenyl	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
bis (2-chloroisopropyl) ether	ND		240	48	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Bis(2-chloroethoxy)methane	ND		240	51	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Bis(2-chloroethyl)ether	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Bis(2-ethylhexyl) phthalate	ND		240	82	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Butyl benzyl phthalate	ND		240	40	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Caprolactam	ND		240	72	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Carbazole	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Chrysene	ND		240	54	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Dibenz(a,h)anthracene	ND		240	43	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Dibenzofuran	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Diethyl phthalate	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Dimethyl phthalate	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Di-n-butyl phthalate	ND		240	41	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-12
Lab Sample ID: 480-189621-14
Date Collected: 09/14/21 14:50
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 68.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Fluoranthene	**120**	**J**	240	26	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Fluorene	ND		240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Hexachlorobenzene	ND		240	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Hexachlorobutadiene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Hexachlorocyclopentadiene	ND		240	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Hexachloroethane	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Indeno[1,2,3-cd]pyrene	**54**	**J**	240	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Isophorone	ND		240	51	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Naphthalene	ND		240	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Nitrobenzene	ND		240	27	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
N-Nitrosodi-n-propylamine	ND		240	41	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
N-Nitrosodiphenylamine	ND		240	200	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Pentachlorophenol	ND		470	240	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Phenanthrene	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Phenol	ND		240	37	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1
Pyrene	**75**	**J**	240	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*114*		*54 - 120*	*09/20/21 07:47*	*09/22/21 07:05*	*1*
2-Fluorobiphenyl	*103*		*60 - 120*	*09/20/21 07:47*	*09/22/21 07:05*	*1*
2-Fluorophenol	*70*		*52 - 120*	*09/20/21 07:47*	*09/22/21 07:05*	*1*
Nitrobenzene-d5	*83*		*53 - 120*	*09/20/21 07:47*	*09/22/21 07:05*	*1*
Phenol-d5	*70*		*54 - 120*	*09/20/21 07:47*	*09/22/21 07:05*	*1*
p-Terphenyl-d14	*99*		*79 - 130*	*09/20/21 07:47*	*09/22/21 07:05*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.4	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
4,4'-DDE	ND		2.4	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
4,4'-DDT	**2.3**	**J**	2.4	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Aldrin	ND		2.4	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
alpha-BHC	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
beta-BHC	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
cis-Chlordane	ND		2.4	1.2	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
delta-BHC	ND		2.4	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Dieldrin	ND		2.4	0.57	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Endosulfan I	ND		2.4	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Endosulfan II	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Endosulfan sulfate	ND		2.4	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Endrin	ND		2.4	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Endrin aldehyde	**1.0**	**J**	2.4	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Endrin ketone	**0.86**	**J**	2.4	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
gamma-BHC (Lindane)	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Heptachlor	ND		2.4	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Heptachlor epoxide	ND		2.4	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Methoxychlor	**2.3**	**J**	2.4	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
Toxaphene	ND		24	14	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1
trans-Chlordane	ND		2.4	0.75	ug/Kg	☼	09/21/21 08:39	09/22/21 14:03	1

Client Sample ID: SS-12
Date Collected: 09/14/21 14:50
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-14
Matrix: Solid
Percent Solids: 68.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		45 - 120	09/21/21 08:39	09/22/21 14:03	1
DCB Decachlorobiphenyl	80		45 - 120	09/21/21 08:39	09/22/21 14:03	1
Tetrachloro-m-xylene	79		30 - 124	09/21/21 08:39	09/22/21 14:03	1
Tetrachloro-m-xylene	59		30 - 124	09/21/21 08:39	09/22/21 14:03	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 15:45	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 15:45	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 15:45	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 15:45	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	09/16/21 14:59	09/17/21 15:45	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 15:45	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	09/16/21 14:59	09/17/21 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	119		60 - 154	09/16/21 14:59	09/17/21 15:45	1
Tetrachloro-m-xylene	114		60 - 154	09/16/21 14:59	09/17/21 15:45	1
DCB Decachlorobiphenyl	152		65 - 174	09/16/21 14:59	09/17/21 15:45	1
DCB Decachlorobiphenyl	120		65 - 174	09/16/21 14:59	09/17/21 15:45	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		24	7.5	ug/Kg	☼	09/21/21 06:53	09/23/21 22:32	1
2,4-D	ND		24	15	ug/Kg	☼	09/21/21 06:53	09/23/21 22:32	1
Silvex (2,4,5-TP)	ND		24	8.5	ug/Kg	☼	09/21/21 06:53	09/23/21 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	68		28 - 129	09/21/21 06:53	09/23/21 22:32	1
2,4-Dichlorophenylacetic acid	75		28 - 129	09/21/21 06:53	09/23/21 22:32	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.71	0.23	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluoropentanoic acid (PFPeA)	ND		0.29	0.056	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorohexanoic acid (PFHxA)	**0.13**	**J**	0.29	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluoroheptanoic acid (PFHpA)	**0.085**	**J**	0.29	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorooctanoic acid (PFOA)	**0.43**		0.29	0.036	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorononanoic acid (PFNA)	**0.19**	**J**	0.29	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorodecanoic acid (PFDA)	**0.076**	**J B**	0.29	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluoroundecanoic acid (PFUnA)	**0.086**	**J**	0.29	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorododecanoic acid (PFDoA)	**0.030**	**J**	0.29	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorotridecanoic acid (PFTriA)	**0.030**	**J**	0.29	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.033	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorobutanesulfonic acid (PFBS)	**0.032**	**J B**	0.29	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorohexanesulfonic acid (PFHxS)	**0.030**	**J B**	0.29	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.29	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-12
Date Collected: 09/14/21 14:50
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-14
Matrix: Solid
Percent Solids: 68.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.68**	**I B**	0.29	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.29	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.29	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.9	0.053	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.9	0.066	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	0.044	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.9	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 07:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C4 PFHpA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C4 PFOA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C4 PFOS	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C5 PFNA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C4 PFBA	*73*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C2 PFHxA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C2 PFDA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C2 PFUnA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C2 PFDoA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C8 FOSA	*72*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C5 PFPeA	*78*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C2 PFTeDA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
d3-NMeFOSAA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
d5-NEtFOSAA	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
M2-6:2 FTS	*108*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*
13C3 PFBS	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19800**		14.9	6.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Antimony	**1.1**	**J**	22.3	0.60	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Arsenic	**7.3**		3.0	0.60	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Barium	**73.1**		0.74	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Beryllium	**0.87**		0.30	0.042	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Cadmium	**0.66**		0.30	0.045	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Calcium	**2580**	**B**	74.4	4.9	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Chromium	**26.7**		0.74	0.30	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Cobalt	**10.6**		0.74	0.074	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Copper	**20.9**		1.5	0.31	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Iron	**26400**		14.9	5.2	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Lead	**42.8**		1.5	0.36	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Magnesium	**3330**		29.8	1.4	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Manganese	**556**	**B**	0.30	0.048	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Nickel	**26.5**		7.4	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Potassium	**3060**		44.7	29.8	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Selenium	**2.8**	**J**	6.0	0.60	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-12
Lab Sample ID: 480-189621-14
Date Collected: 09/14/21 14:50
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 68.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.89	0.30	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Sodium	**78.1**	**J**	208	19.4	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Thallium	ND		8.9	0.45	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Vanadium	**41.0**		0.74	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1
Zinc	**125**		3.0	0.95	mg/Kg	☼	09/17/21 15:27	09/21/21 01:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.080**		0.036	0.0083	mg/Kg	☼	09/20/21 14:20	09/20/21 16:06	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-13
Date Collected: 09/14/21 14:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-15
Matrix: Solid
Percent Solids: 65.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		150	82	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2,4,5-Trichlorophenol	ND		250	68	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2,4,6-Trichlorophenol	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2,4-Dichlorophenol	ND		250	27	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2,4-Dimethylphenol	ND		250	61	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2,4-Dinitrophenol	ND		2500	1200	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2,4-Dinitrotoluene	ND		250	52	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2,6-Dinitrotoluene	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2-Chloronaphthalene	ND		250	42	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2-Chlorophenol	ND		490	46	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2-Methylnaphthalene	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2-Methylphenol	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2-Nitroaniline	ND		490	37	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
2-Nitrophenol	ND		250	71	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
3,3'-Dichlorobenzidine	ND		490	300	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
3-Nitroaniline	ND		490	70	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4,6-Dinitro-2-methylphenol	ND		490	250	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4-Bromophenyl phenyl ether	ND		250	36	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4-Chloro-3-methylphenol	ND		250	62	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4-Chloroaniline	ND		250	62	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4-Chlorophenyl phenyl ether	ND		250	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4-Methylphenol	ND		490	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4-Nitroaniline	ND		490	130	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
4-Nitrophenol	ND		490	180	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Acenaphthene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Acenaphthylene	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Acetophenone	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Anthracene	ND		250	62	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Atrazine	ND		250	88	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Benzaldehyde	ND		250	200	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Benzo[a]anthracene	ND		250	25	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Benzo[a]pyrene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Benzo[b]fluoranthene	ND		250	40	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Benzo[g,h,i]perylene	ND		250	27	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Benzo[k]fluoranthene	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Biphenyl	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
bis (2-chloroisopropyl) ether	ND		250	50	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Bis(2-chloroethoxy)methane	ND		250	53	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Bis(2-chloroethyl)ether	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Bis(2-ethylhexyl) phthalate	ND		250	86	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Butyl benzyl phthalate	ND		250	42	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Caprolactam	ND		250	76	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Carbazole	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Chrysene	ND		250	56	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Dibenz(a,h)anthracene	ND		250	45	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Dibenzofuran	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Diethyl phthalate	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Dimethyl phthalate	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Di-n-butyl phthalate	ND		250	43	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1

Client Sample ID: SS-13
Lab Sample ID: 480-189621-15
Date Collected: 09/14/21 14:05
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Fluoranthene	**45**	**J**	250	27	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Fluorene	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Hexachlorobenzene	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Hexachlorobutadiene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Hexachlorocyclopentadiene	ND		250	34	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Hexachloroethane	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Indeno[1,2,3-cd]pyrene	ND		250	31	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Isophorone	ND		250	53	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Naphthalene	ND		250	33	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Nitrobenzene	ND		250	28	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
N-Nitrosodi-n-propylamine	ND		250	43	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
N-Nitrosodiphenylamine	ND		250	200	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Pentachlorophenol	ND		490	250	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Phenanthrene	ND		250	37	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Phenol	ND		250	39	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1
Pyrene	ND		250	30	ug/Kg	☼	09/20/21 07:47	09/22/21 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*106*		*54 - 120*	*09/20/21 07:47*	*09/22/21 07:29*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*09/20/21 07:47*	*09/22/21 07:29*	*1*
2-Fluorophenol	*72*		*52 - 120*	*09/20/21 07:47*	*09/22/21 07:29*	*1*
Nitrobenzene-d5	*80*		*53 - 120*	*09/20/21 07:47*	*09/22/21 07:29*	*1*
Phenol-d5	*72*		*54 - 120*	*09/20/21 07:47*	*09/22/21 07:29*	*1*
p-Terphenyl-d14	*102*		*79 - 130*	*09/20/21 07:47*	*09/22/21 07:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.5	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
4,4'-DDE	ND		2.5	0.52	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
4,4'-DDT	ND		2.5	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Aldrin	ND		2.5	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
alpha-BHC	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
beta-BHC	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
cis-Chlordane	ND		2.5	1.2	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
delta-BHC	ND		2.5	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Dieldrin	ND		2.5	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Endosulfan I	ND		2.5	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Endosulfan II	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Endosulfan sulfate	ND		2.5	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Endrin	ND		2.5	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Endrin aldehyde	ND		2.5	0.63	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Endrin ketone	**0.95**	**J**	2.5	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
gamma-BHC (Lindane)	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Heptachlor	ND		2.5	0.54	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Heptachlor epoxide	ND		2.5	0.64	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Methoxychlor	**1.8**	**J**	2.5	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
Toxaphene	ND		25	14	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1
trans-Chlordane	ND		2.5	0.79	ug/Kg	☼	09/21/21 08:39	09/22/21 14:22	1

Client Sample ID: SS-13
Date Collected: 09/14/21 14:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-15
Matrix: Solid
Percent Solids: 65.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*45 - 120*	*09/21/21 08:39*	*09/22/21 14:22*	*1*
DCB Decachlorobiphenyl	*120*		*45 - 120*	*09/21/21 08:39*	*09/22/21 14:22*	*1*
Tetrachloro-m-xylene	*83*		*30 - 124*	*09/21/21 08:39*	*09/22/21 14:22*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*09/21/21 08:39*	*09/22/21 14:22*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.33	0.064	mg/Kg	☼	09/16/21 14:59	09/17/21 15:58	1
PCB-1221	ND		0.33	0.064	mg/Kg	☼	09/16/21 14:59	09/17/21 15:58	1
PCB-1232	ND		0.33	0.064	mg/Kg	☼	09/16/21 14:59	09/17/21 15:58	1
PCB-1242	ND		0.33	0.064	mg/Kg	☼	09/16/21 14:59	09/17/21 15:58	1
PCB-1248	ND		0.33	0.064	mg/Kg	☼	09/16/21 14:59	09/17/21 15:58	1
PCB-1254	ND		0.33	0.15	mg/Kg	☼	09/16/21 14:59	09/17/21 15:58	1
PCB-1260	ND		0.33	0.15	mg/Kg	☼	09/16/21 14:59	09/17/21 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*126*		*60 - 154*	*09/16/21 14:59*	*09/17/21 15:58*	*1*
Tetrachloro-m-xylene	*121*		*60 - 154*	*09/16/21 14:59*	*09/17/21 15:58*	*1*
DCB Decachlorobiphenyl	*168*		*65 - 174*	*09/16/21 14:59*	*09/17/21 15:58*	*1*
DCB Decachlorobiphenyl	*132*		*65 - 174*	*09/16/21 14:59*	*09/17/21 15:58*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		25	8.0	ug/Kg	☼	09/21/21 06:53	09/23/21 23:02	1
2,4-D	ND		25	16	ug/Kg	☼	09/21/21 06:53	09/23/21 23:02	1
Silvex (2,4,5-TP)	ND		25	9.0	ug/Kg	☼	09/21/21 06:53	09/23/21 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*	*09/21/21 06:53*	*09/23/21 23:02*	*1*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*	*09/21/21 06:53*	*09/23/21 23:02*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.74	0.24	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluoropentanoic acid (PFPeA)	**0.069**	**J**	0.30	0.058	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorohexanoic acid (PFHxA)	**0.12**	**J**	0.30	0.033	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluoroheptanoic acid (PFHpA)	**0.10**	**J**	0.30	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorooctanoic acid (PFOA)	**0.43**		0.30	0.037	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorononanoic acid (PFNA)	**0.12**	**J**	0.30	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorodecanoic acid (PFDA)	**0.032**	**J B**	0.30	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluoroundecanoic acid (PFUnA)	**0.044**	**J**	0.30	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorotridecanoic acid (PFTriA)	ND		0.30	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.30	0.034	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorobutanesulfonic acid (PFBS)	**0.026**	**J B**	0.30	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorohexanesulfonic acid (PFHxS)	**0.035**	**J B**	0.30	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.30	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-13
Lab Sample ID: 480-189621-15
Date Collected: 09/14/21 14:05
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.5

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.48**	**I B**	0.30	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.30	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.30	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.0	0.055	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.0	0.068	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	0.046	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.0	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 07:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C4 PFHpA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C4 PFOA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C4 PFOS	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C5 PFNA	*73*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C4 PFBA	*75*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C2 PFHxA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C2 PFDA	*70*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C2 PFUnA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C2 PFDoA	*83*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C8 FOSA	*75*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C5 PFPeA	*82*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C2 PFTeDA	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
d5-NEtFOSAA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
M2-8:2 FTS	*97*		*25 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*
13C3 PFBS	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 07:54*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22100**		14.4	6.4	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Antimony	**1.8**	**J**	21.7	0.58	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Arsenic	**6.7**		2.9	0.58	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Barium	**81.2**		0.72	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Beryllium	**0.94**		0.29	0.040	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Cadmium	**0.53**		0.29	0.043	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Calcium	**2170**	**B**	72.2	4.8	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Chromium	**30.8**		0.72	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Cobalt	**15.2**		0.72	0.072	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Copper	**20.1**		1.4	0.30	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Iron	**31400**		14.4	5.1	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Lead	**36.1**		1.4	0.35	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Magnesium	**4530**		28.9	1.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Manganese	**860**	**B**	0.29	0.046	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Nickel	**31.8**		7.2	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Potassium	**2740**		43.3	28.9	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Selenium	**2.6**	**J**	5.8	0.58	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-13
Lab Sample ID: 480-189621-15
Date Collected: 09/14/21 14:05
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.87	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Sodium	**91.1**	**J**	202	18.8	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Thallium	ND		8.7	0.43	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Vanadium	**41.3**		0.72	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1
Zinc	**107**		2.9	0.92	mg/Kg	☼	09/17/21 15:27	09/21/21 01:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.082**		0.034	0.0078	mg/Kg	☼	09/20/21 14:20	09/20/21 16:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-14
Date Collected: 09/14/21 13:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-16
Matrix: Solid
Percent Solids: 65.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		760	420	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2,4,5-Trichlorophenol	ND		1300	350	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2,4,6-Trichlorophenol	ND		1300	260	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2,4-Dichlorophenol	ND		1300	140	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2,4-Dimethylphenol	ND		1300	310	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2,4-Dinitrophenol	ND		13000	6000	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2,4-Dinitrotoluene	ND		1300	270	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2,6-Dinitrotoluene	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2-Chloronaphthalene	ND		1300	210	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2-Chlorophenol	ND		2500	240	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2-Methylnaphthalene	ND		1300	260	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2-Methylphenol	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2-Nitroaniline	ND		2500	190	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
2-Nitrophenol	ND		1300	370	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
3,3'-Dichlorobenzidine	ND		2500	1500	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
3-Nitroaniline	ND		2500	360	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4,6-Dinitro-2-methylphenol	ND		2500	1300	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4-Bromophenyl phenyl ether	ND		1300	180	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4-Chloro-3-methylphenol	ND		1300	320	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4-Chloroaniline	ND		1300	320	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4-Chlorophenyl phenyl ether	ND		1300	160	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4-Methylphenol	ND		2500	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4-Nitroaniline	ND		2500	680	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
4-Nitrophenol	ND		2500	910	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Acenaphthene	ND		1300	190	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Acenaphthylene	ND		1300	170	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Acetophenone	ND		1300	180	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Anthracene	ND		1300	320	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Atrazine	ND		1300	450	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Benzaldehyde	ND		1300	1000	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Benzo[a]anthracene	ND		1300	130	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Benzo[a]pyrene	ND		1300	190	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Benzo[b]fluoranthene	ND		1300	210	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Benzo[g,h,i]perylene	**190**	**J**	1300	140	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Benzo[k]fluoranthene	ND		1300	170	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Biphenyl	ND		1300	190	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
bis (2-chloroisopropyl) ether	ND		1300	260	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Bis(2-chloroethoxy)methane	ND		1300	270	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Bis(2-chloroethyl)ether	ND		1300	170	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Bis(2-ethylhexyl) phthalate	ND		1300	440	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Butyl benzyl phthalate	ND		1300	210	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Caprolactam	ND		1300	390	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Carbazole	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Chrysene	ND		1300	290	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Dibenz(a,h)anthracene	ND		1300	230	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Dibenzofuran	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Diethyl phthalate	ND		1300	170	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Dimethyl phthalate	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Di-n-butyl phthalate	ND		1300	220	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5

Client Sample ID: SS-14
Date Collected: 09/14/21 13:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-16
Matrix: Solid
Percent Solids: 65.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Fluoranthene	**350**	**J**	1300	140	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Fluorene	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Hexachlorobenzene	ND		1300	180	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Hexachlorobutadiene	ND		1300	190	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Hexachlorocyclopentadiene	ND		1300	180	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Hexachloroethane	ND		1300	170	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Indeno[1,2,3-cd]pyrene	ND		1300	160	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Isophorone	ND		1300	270	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Naphthalene	ND		1300	170	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Nitrobenzene	ND		1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
N-Nitrosodi-n-propylamine	ND		1300	220	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
N-Nitrosodiphenylamine	ND		1300	1100	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Pentachlorophenol	ND		2500	1300	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Phenanthrene	ND		1300	190	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Phenol	ND		1300	200	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5
Pyrene	**200**	**J**	1300	150	ug/Kg	☼	09/20/21 07:47	09/22/21 07:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*54 - 120*	*09/20/21 07:47*	*09/22/21 07:53*	*5*
2-Fluorobiphenyl	*102*		*60 - 120*	*09/20/21 07:47*	*09/22/21 07:53*	*5*
2-Fluorophenol	*74*		*52 - 120*	*09/20/21 07:47*	*09/22/21 07:53*	*5*
Nitrobenzene-d5	*85*		*53 - 120*	*09/20/21 07:47*	*09/22/21 07:53*	*5*
Phenol-d5	*71*		*54 - 120*	*09/20/21 07:47*	*09/22/21 07:53*	*5*
p-Terphenyl-d14	*101*		*79 - 130*	*09/20/21 07:47*	*09/22/21 07:53*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.5	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
4,4'-DDE	**4.1**		2.5	0.53	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
4,4'-DDT	**11**		2.5	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Aldrin	ND		2.5	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
alpha-BHC	ND		2.5	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
beta-BHC	ND		2.5	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
cis-Chlordane	ND		2.5	1.3	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
delta-BHC	ND		2.5	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Dieldrin	ND		2.5	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Endosulfan I	ND		2.5	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Endosulfan II	ND		2.5	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Endosulfan sulfate	ND		2.5	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Endrin	**0.78**	**J**	2.5	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Endrin aldehyde	**2.0**	**J**	2.5	0.65	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Endrin ketone	**2.0**	**J**	2.5	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
gamma-BHC (Lindane)	ND		2.5	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Heptachlor	ND		2.5	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Heptachlor epoxide	ND		2.5	0.66	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Methoxychlor	**3.0**		2.5	0.52	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
Toxaphene	ND		25	15	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1
trans-Chlordane	ND		2.5	0.81	ug/Kg	☼	09/21/21 08:39	09/22/21 14:42	1

Client Sample ID: SS-14
Date Collected: 09/14/21 13:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-16
Matrix: Solid
Percent Solids: 65.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		45 - 120	09/21/21 08:39	09/22/21 14:42	1
DCB Decachlorobiphenyl	218	S1+	45 - 120	09/21/21 08:39	09/22/21 14:42	1
Tetrachloro-m-xylene	77		30 - 124	09/21/21 08:39	09/22/21 14:42	1
Tetrachloro-m-xylene	80		30 - 124	09/21/21 08:39	09/22/21 14:42	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.33	0.065	mg/Kg	☼	09/16/21 14:59	09/17/21 16:10	1
PCB-1221	ND		0.33	0.065	mg/Kg	☼	09/16/21 14:59	09/17/21 16:10	1
PCB-1232	ND		0.33	0.065	mg/Kg	☼	09/16/21 14:59	09/17/21 16:10	1
PCB-1242	ND		0.33	0.065	mg/Kg	☼	09/16/21 14:59	09/17/21 16:10	1
PCB-1248	ND		0.33	0.065	mg/Kg	☼	09/16/21 14:59	09/17/21 16:10	1
PCB-1254	ND		0.33	0.15	mg/Kg	☼	09/16/21 14:59	09/17/21 16:10	1
PCB-1260	ND		0.33	0.15	mg/Kg	☼	09/16/21 14:59	09/17/21 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		60 - 154	09/16/21 14:59	09/17/21 16:10	1
Tetrachloro-m-xylene	108		60 - 154	09/16/21 14:59	09/17/21 16:10	1
DCB Decachlorobiphenyl	136		65 - 174	09/16/21 14:59	09/17/21 16:10	1
DCB Decachlorobiphenyl	109		65 - 174	09/16/21 14:59	09/17/21 16:10	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		25	8.0	ug/Kg	☼	09/21/21 06:53	09/23/21 23:32	1
2,4-D	ND		25	16	ug/Kg	☼	09/21/21 06:53	09/23/21 23:32	1
Silvex (2,4,5-TP)	ND		25	9.0	ug/Kg	☼	09/21/21 06:53	09/23/21 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	64		28 - 129	09/21/21 06:53	09/23/21 23:32	1
2,4-Dichlorophenylacetic acid	71		28 - 129	09/21/21 06:53	09/23/21 23:32	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.29	J	0.76	0.24	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluoropentanoic acid (PFPeA)	0.081	J	0.30	0.059	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorohexanoic acid (PFHxA)	0.12	J I	0.30	0.033	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluoroheptanoic acid (PFHpA)	0.093	J	0.30	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorooctanoic acid (PFOA)	0.17	J	0.30	0.038	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorononanoic acid (PFNA)	0.13	J	0.30	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorodecanoic acid (PFDA)	0.11	J B	0.30	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluoroundecanoic acid (PFUnA)	0.16	J	0.30	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorododecanoic acid (PFDoA)	0.065	J	0.30	0.032	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorotridecanoic acid (PFTriA)	0.048	J	0.30	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorotetradecanoic acid (PFTeA)	0.038	J	0.30	0.035	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorobutanesulfonic acid (PFBS)	0.029	J B	0.30	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorohexanesulfonic acid (PFHxS)	0.025	J B	0.30	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.30	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1

Client Sample ID: SS-14
Lab Sample ID: 480-189621-16
Date Collected: 09/14/21 13:10
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.69**	**I B**	0.30	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.30	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.30	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.0	0.056	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**0.089**	**J B**	3.0	0.070	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	0.047	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.0	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 08:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*87*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C4 PFHpA	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C4 PFOA	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C4 PFOS	*83*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C5 PFNA	*83*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C4 PFBA	*77*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C2 PFHxA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C2 PFDA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C2 PFUnA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C2 PFDoA	*85*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C8 FOSA	*68*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C5 PFPeA	*79*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C2 PFTeDA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
d3-NMeFOSAA	*106*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
d5-NEtFOSAA	*98*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
M2-6:2 FTS	*148*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
M2-8:2 FTS	*180*	**5+*	*25 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*
13C3 PFBS	*89*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19700**		15.9	7.0	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Antimony	**0.86**	**J**	23.9	0.64	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Arsenic	**5.7**		3.2	0.64	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Barium	**48.0**		0.80	0.18	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Beryllium	**0.55**		0.32	0.045	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Cadmium	**0.47**		0.32	0.048	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Calcium	**832**	**B**	79.7	5.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Chromium	**27.6**		0.80	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Cobalt	**7.2**		0.80	0.080	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Copper	**16.8**		1.6	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Iron	**24900**		15.9	5.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Lead	**145**		1.6	0.38	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Magnesium	**3560**		31.9	1.5	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Manganese	**206**	**B**	0.32	0.051	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Nickel	**24.4**		8.0	0.37	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Potassium	**2260**		47.8	31.9	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Selenium	**2.5**	**J**	6.4	0.64	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-14
Lab Sample ID: 480-189621-16
Date Collected: 09/14/21 13:10
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.96	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Sodium	**64.8**	**J**	223	20.7	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Thallium	ND		9.6	0.48	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Vanadium	**38.5**		0.80	0.18	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1
Zinc	**106**		3.2	1.0	mg/Kg	☼	09/17/21 15:27	09/21/21 01:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.090**		0.036	0.0082	mg/Kg	☼	09/20/21 14:20	09/20/21 16:11	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-15
Date Collected: 09/14/21 13:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-17
Matrix: Solid
Percent Solids: 72.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		690	380	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2,4,5-Trichlorophenol	ND		1200	320	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2,4,6-Trichlorophenol	ND		1200	230	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2,4-Dichlorophenol	ND		1200	120	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2,4-Dimethylphenol	ND		1200	280	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2,4-Dinitrophenol	ND		11000	5400	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2,4-Dinitrotoluene	ND		1200	240	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2,6-Dinitrotoluene	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2-Chloronaphthalene	ND		1200	190	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2-Chlorophenol	ND		2300	210	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2-Methylnaphthalene	ND		1200	230	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2-Methylphenol	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2-Nitroaniline	ND		2300	170	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
2-Nitrophenol	ND		1200	330	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
3,3'-Dichlorobenzidine	ND		2300	1400	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
3-Nitroaniline	ND		2300	320	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4,6-Dinitro-2-methylphenol	ND		2300	1200	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4-Bromophenyl phenyl ether	ND		1200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4-Chloro-3-methylphenol	ND		1200	290	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4-Chloroaniline	ND		1200	290	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4-Chlorophenyl phenyl ether	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4-Methylphenol	ND		2300	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4-Nitroaniline	ND		2300	610	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
4-Nitrophenol	ND		2300	820	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Acenaphthene	ND		1200	170	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Acenaphthylene	ND		1200	150	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Acetophenone	ND		1200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Anthracene	ND		1200	290	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Atrazine	ND		1200	400	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Benzaldehyde	ND		1200	930	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Benzo[a]anthracene	ND		1200	120	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Benzo[a]pyrene	ND		1200	170	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Benzo[b]fluoranthene	ND		1200	190	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Benzo[g,h,i]perylene	**180**	**J**	1200	120	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Benzo[k]fluoranthene	ND		1200	150	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Biphenyl	ND		1200	170	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
bis (2-chloroisopropyl) ether	ND		1200	230	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Bis(2-chloroethoxy)methane	ND		1200	250	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Bis(2-chloroethyl)ether	ND		1200	150	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Bis(2-ethylhexyl) phthalate	ND		1200	400	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Butyl benzyl phthalate	ND		1200	190	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Caprolactam	ND		1200	350	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Carbazole	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Chrysene	ND		1200	260	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Dibenz(a,h)anthracene	ND		1200	210	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Dibenzofuran	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Diethyl phthalate	ND		1200	150	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Dimethyl phthalate	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Di-n-butyl phthalate	ND		1200	200	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-15
Date Collected: 09/14/21 13:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-17
Matrix: Solid
Percent Solids: 72.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Fluoranthene	**330**	**J**	1200	120	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Fluorene	ND		1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Hexachlorobenzene	ND		1200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Hexachlorobutadiene	ND		1200	170	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Hexachlorocyclopentadiene	ND		1200	160	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Hexachloroethane	ND		1200	150	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Indeno[1,2,3-cd]pyrene	**150**	**J**	1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Isophorone	ND		1200	250	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Naphthalene	ND		1200	150	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Nitrobenzene	ND		1200	130	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
N-Nitrosodi-n-propylamine	ND		1200	200	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
N-Nitrosodiphenylamine	ND		1200	950	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Pentachlorophenol	ND		2300	1200	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Phenanthrene	ND		1200	170	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Phenol	ND		1200	180	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5
Pyrene	**200**	**J**	1200	140	ug/Kg	☼	09/20/21 07:47	09/22/21 08:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*54 - 120*	*09/20/21 07:47*	*09/22/21 08:17*	*5*
2-Fluorobiphenyl	*91*		*60 - 120*	*09/20/21 07:47*	*09/22/21 08:17*	*5*
2-Fluorophenol	*54*		*52 - 120*	*09/20/21 07:47*	*09/22/21 08:17*	*5*
Nitrobenzene-d5	*68*		*53 - 120*	*09/20/21 07:47*	*09/22/21 08:17*	*5*
Phenol-d5	*61*		*54 - 120*	*09/20/21 07:47*	*09/22/21 08:17*	*5*
p-Terphenyl-d14	*86*		*79 - 130*	*09/20/21 07:47*	*09/22/21 08:17*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.3	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
4,4'-DDE	**3.6**		2.3	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
4,4'-DDT	**5.0**		2.3	0.54	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Aldrin	ND		2.3	0.56	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
alpha-BHC	ND		2.3	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
beta-BHC	**1.3**	**J B**	2.3	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
cis-Chlordane	ND		2.3	1.1	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
delta-BHC	ND		2.3	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Dieldrin	ND		2.3	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Endosulfan I	ND		2.3	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Endosulfan II	ND		2.3	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Endosulfan sulfate	ND		2.3	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Endrin	**0.47**	**J**	2.3	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Endrin aldehyde	**1.9**	**J**	2.3	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Endrin ketone	**1.2**	**J**	2.3	0.56	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
gamma-BHC (Lindane)	**0.79**	**J**	2.3	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Heptachlor	ND		2.3	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Heptachlor epoxide	ND		2.3	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Methoxychlor	ND		2.3	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
Toxaphene	ND		23	13	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1
trans-Chlordane	ND		2.3	0.73	ug/Kg	☼	09/21/21 08:39	09/22/21 15:01	1

Client Sample ID: SS-15
Date Collected: 09/14/21 13:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-17
Matrix: Solid
Percent Solids: 72.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		45 - 120	09/21/21 08:39	09/22/21 15:01	1
DCB Decachlorobiphenyl	88		45 - 120	09/21/21 08:39	09/22/21 15:01	1
Tetrachloro-m-xylene	76		30 - 124	09/21/21 08:39	09/22/21 15:01	1
Tetrachloro-m-xylene	90		30 - 124	09/21/21 08:39	09/22/21 15:01	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	☼	09/16/21 14:59	09/17/21 16:23	1
PCB-1221	ND		0.30	0.058	mg/Kg	☼	09/16/21 14:59	09/17/21 16:23	1
PCB-1232	ND		0.30	0.058	mg/Kg	☼	09/16/21 14:59	09/17/21 16:23	1
PCB-1242	ND		0.30	0.058	mg/Kg	☼	09/16/21 14:59	09/17/21 16:23	1
PCB-1248	ND		0.30	0.058	mg/Kg	☼	09/16/21 14:59	09/17/21 16:23	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	09/16/21 14:59	09/17/21 16:23	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	09/16/21 14:59	09/17/21 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	127		60 - 154	09/16/21 14:59	09/17/21 16:23	1
Tetrachloro-m-xylene	122		60 - 154	09/16/21 14:59	09/17/21 16:23	1
DCB Decachlorobiphenyl	156		65 - 174	09/16/21 14:59	09/17/21 16:23	1
DCB Decachlorobiphenyl	124		65 - 174	09/16/21 14:59	09/17/21 16:23	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		23	7.2	ug/Kg	☼	09/21/21 06:53	09/24/21 00:02	1
2,4-D	ND		23	14	ug/Kg	☼	09/21/21 06:53	09/24/21 00:02	1
Silvex (2,4,5-TP)	ND		23	8.1	ug/Kg	☼	09/21/21 06:53	09/24/21 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	78		28 - 129	09/21/21 06:53	09/24/21 00:02	1
2,4-Dichlorophenylacetic acid	83		28 - 129	09/21/21 06:53	09/24/21 00:02	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.1**		0.67	0.22	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluoropentanoic acid (PFPeA)	**0.29**		0.27	0.052	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorohexanoic acid (PFHxA)	**0.34**		0.27	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluoroheptanoic acid (PFHpA)	**0.42**		0.27	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorooctanoic acid (PFOA)	**0.57**		0.27	0.033	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorononanoic acid (PFNA)	**0.28**		0.27	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorodecanoic acid (PFDA)	**0.14**	**J B**	0.27	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluoroundecanoic acid (PFUnA)	**0.18**	**J**	0.27	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorododecanoic acid (PFDoA)	**0.066**	**J**	0.27	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorotridecanoic acid (PFTriA)	**0.065**	**J**	0.27	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorotetradecanoic acid (PFTeA)	**0.035**	**J**	0.27	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorobutanesulfonic acid (PFBS)	**0.078**	**J B**	0.27	0.012	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorohexanesulfonic acid (PFHxS)	**0.050**	**J B**	0.27	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.27	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-15
Date Collected: 09/14/21 13:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-17
Matrix: Solid
Percent Solids: 72.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**1.4**	**B**	0.27	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.27	0.016	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.27	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.7	0.049	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**0.095**	**J B**	2.7	0.061	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.7	0.041	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.7	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 08:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C4 PFHpA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C4 PFOA	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C4 PFOS	*83*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C5 PFNA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C4 PFBA	*75*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C2 PFHxA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C2 PFDA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C2 PFUnA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C2 PFDoA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C8 FOSA	*71*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C5 PFPeA	*78*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C2 PFTeDA	*84*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
d3-NMeFOSAA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
d5-NEtFOSAA	*91*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
M2-8:2 FTS	*128*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*
13C3 PFBS	*87*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19700**		14.3	6.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Antimony	**1.4**	**J**	21.4	0.57	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Arsenic	**7.4**		2.9	0.57	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Barium	**47.1**		0.71	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Beryllium	**0.41**		0.29	0.040	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Cadmium	**0.49**		0.29	0.043	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Calcium	**166**	**B**	71.4	4.7	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Chromium	**26.4**		0.71	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Cobalt	**6.9**		0.71	0.071	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Copper	**16.5**		1.4	0.30	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Iron	**24600**		14.3	5.0	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Lead	**64.2**		1.4	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Magnesium	**2880**		28.6	1.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Manganese	**137**	**B**	0.29	0.046	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Nickel	**21.3**		7.1	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Potassium	**1750**		42.9	28.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Selenium	**3.1**	**J**	5.7	0.57	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-15
Lab Sample ID: 480-189621-17
Date Collected: 09/14/21 13:45
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 72.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.86	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Sodium	**52.8**	**J**	200	18.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Thallium	ND		8.6	0.43	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Vanadium	**43.5**		0.71	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1
Zinc	**106**		2.9	0.91	mg/Kg	☼	09/17/21 15:27	09/21/21 01:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.035	0.0080	mg/Kg	☼	09/20/21 14:20	09/20/21 16:13	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-16
Date Collected: 09/14/21 14:15
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-18
Matrix: Solid
Percent Solids: 72.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	75	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2,4,5-Trichlorophenol	ND		230	62	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2,4,6-Trichlorophenol	ND		230	46	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2,4-Dichlorophenol	ND		230	24	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2,4-Dimethylphenol	ND		230	56	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2,4-Dinitrophenol	ND		2200	1100	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2,4-Dinitrotoluene	ND		230	47	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2,6-Dinitrotoluene	ND		230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2-Chloronaphthalene	ND		230	38	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2-Chlorophenol	ND		450	42	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2-Methylnaphthalene	ND		230	46	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2-Methylphenol	ND		230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2-Nitroaniline	ND		450	34	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
2-Nitrophenol	ND		230	65	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
3,3'-Dichlorobenzidine	ND		450	270	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
3-Nitroaniline	ND		450	64	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4,6-Dinitro-2-methylphenol	ND		450	230	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4-Bromophenyl phenyl ether	ND		230	33	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4-Chloro-3-methylphenol	ND		230	57	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4-Chloroaniline	ND		230	57	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4-Chlorophenyl phenyl ether	ND		230	28	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4-Methylphenol	ND		450	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4-Nitroaniline	ND		450	120	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
4-Nitrophenol	ND		450	160	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Acenaphthene	ND		230	34	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Acenaphthylene	ND		230	30	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Acetophenone	ND		230	31	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Anthracene	ND		230	57	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Atrazine	ND		230	80	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Benzaldehyde	ND		230	180	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Benzo[a]anthracene	ND		230	23	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Benzo[a]pyrene	**38**	**J**	230	34	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Benzo[b]fluoranthene	**64**	**J**	230	37	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Benzo[g,h,i]perylene	**57**	**J**	230	24	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Benzo[k]fluoranthene	ND		230	30	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Biphenyl	ND		230	34	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
bis (2-chloroisopropyl) ether	ND		230	46	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Bis(2-chloroethoxy)methane	ND		230	49	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Bis(2-chloroethyl)ether	ND		230	30	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Bis(2-ethylhexyl) phthalate	ND		230	79	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Butyl benzyl phthalate	ND		230	38	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Caprolactam	ND		230	69	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Carbazole	ND		230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Chrysene	ND		230	51	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Dibenz(a,h)anthracene	ND		230	41	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Dibenzofuran	ND		230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Diethyl phthalate	ND		230	30	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Dimethyl phthalate	ND		230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Di-n-butyl phthalate	ND		230	39	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-16
Date Collected: 09/14/21 14:15
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-18
Matrix: Solid
Percent Solids: 72.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Fluoranthene	**95**	**J**	230	24	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Fluorene	ND		230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Hexachlorobenzene	ND		230	31	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Hexachlorobutadiene	ND		230	34	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Hexachlorocyclopentadiene	ND		230	31	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Hexachloroethane	ND		230	30	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Indeno[1,2,3-cd]pyrene	**49**	**J**	230	28	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Isophorone	ND		230	49	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Naphthalene	ND		230	30	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Nitrobenzene	ND		230	26	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
N-Nitrosodi-n-propylamine	ND		230	39	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
N-Nitrosodiphenylamine	ND		230	190	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Pentachlorophenol	ND		450	230	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Phenanthrene	ND		230	34	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Phenol	ND		230	35	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1
Pyrene	**75**	**J**	230	27	ug/Kg	☼	09/20/21 07:47	09/22/21 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*119*		*54 - 120*	*09/20/21 07:47*	*09/22/21 08:41*	*1*
2-Fluorobiphenyl	*111*		*60 - 120*	*09/20/21 07:47*	*09/22/21 08:41*	*1*
2-Fluorophenol	*80*		*52 - 120*	*09/20/21 07:47*	*09/22/21 08:41*	*1*
Nitrobenzene-d5	*93*		*53 - 120*	*09/20/21 07:47*	*09/22/21 08:41*	*1*
Phenol-d5	*79*		*54 - 120*	*09/20/21 07:47*	*09/22/21 08:41*	*1*
p-Terphenyl-d14	*113*		*79 - 130*	*09/20/21 07:47*	*09/22/21 08:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18700**		13.8	6.1	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Antimony	**1.5**	**J**	20.7	0.55	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Arsenic	**6.4**		2.8	0.55	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Barium	**59.6**		0.69	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Beryllium	**0.74**		0.28	0.039	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Cadmium	**0.49**		0.28	0.041	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Calcium	**2240**	**B**	68.9	4.5	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Chromium	**25.6**		0.69	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Cobalt	**12.4**		0.69	0.069	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Copper	**21.0**		1.4	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Iron	**24200**		13.8	4.8	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Lead	**38.6**		1.4	0.33	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Magnesium	**3550**		27.6	1.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Manganese	**472**	**B**	0.28	0.044	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Nickel	**26.9**		6.9	0.32	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Potassium	**2720**		41.4	27.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Selenium	**2.2**	**J**	5.5	0.55	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Silver	ND		0.83	0.28	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Sodium	**68.4**	**J**	193	17.9	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Thallium	ND		8.3	0.41	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Vanadium	**36.9**		0.69	0.15	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1
Zinc	**105**		2.8	0.88	mg/Kg	☼	09/17/21 15:27	09/21/21 01:38	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-16
Lab Sample ID: 480-189621-18
Date Collected: 09/14/21 14:15
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 72.4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.039	0.0091	mg/Kg	☼	09/20/21 14:20	09/20/21 16:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-17
Date Collected: 09/14/21 13:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-19
Matrix: Solid
Percent Solids: 69.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	79	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2,4,5-Trichlorophenol	ND		240	66	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2,4,6-Trichlorophenol	ND		240	49	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2,4-Dichlorophenol	ND		240	26	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2,4-Dimethylphenol	ND		240	59	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2,4-Dinitrophenol	ND		2400	1100	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2,4-Dinitrotoluene	ND		240	50	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2,6-Dinitrotoluene	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2-Chloronaphthalene	ND		240	40	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2-Chlorophenol	ND		480	45	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2-Methylnaphthalene	ND		240	49	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2-Methylphenol	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2-Nitroaniline	ND		480	36	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
2-Nitrophenol	ND		240	69	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
3,3'-Dichlorobenzidine	ND		480	290	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
3-Nitroaniline	ND		480	68	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4,6-Dinitro-2-methylphenol	ND		480	240	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4-Bromophenyl phenyl ether	ND		240	35	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4-Chloro-3-methylphenol	ND		240	60	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4-Chloroaniline	ND		240	60	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4-Chlorophenyl phenyl ether	ND		240	30	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4-Methylphenol	ND		480	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4-Nitroaniline	ND		480	130	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
4-Nitrophenol	ND		480	170	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Acenaphthene	ND		240	36	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Acenaphthylene	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Acetophenone	ND		240	33	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Anthracene	ND		240	60	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Atrazine	ND		240	85	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Benzaldehyde	ND		240	190	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Benzo[a]anthracene	ND		240	24	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Benzo[a]pyrene	**65**	**J**	240	36	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Benzo[b]fluoranthene	**120**	**J**	240	39	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Benzo[g,h,i]perylene	**82**	**J**	240	26	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Benzo[k]fluoranthene	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Biphenyl	ND		240	36	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
bis (2-chloroisopropyl) ether	ND		240	49	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Bis(2-chloroethoxy)methane	ND		240	52	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Bis(2-chloroethyl)ether	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Bis(2-ethylhexyl) phthalate	ND		240	84	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Butyl benzyl phthalate	ND		240	40	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Caprolactam	ND		240	73	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Carbazole	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Chrysene	**71**	**J**	240	55	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Dibenz(a,h)anthracene	ND		240	43	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Dibenzofuran	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Diethyl phthalate	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Dimethyl phthalate	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Di-n-butyl phthalate	ND		240	42	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-17
Date Collected: 09/14/21 13:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-19
Matrix: Solid
Percent Solids: 69.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Fluoranthene	**150**	**J**	240	26	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Fluorene	ND		240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Hexachlorobenzene	ND		240	33	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Hexachlorobutadiene	ND		240	36	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Hexachlorocyclopentadiene	ND		240	33	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Hexachloroethane	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Indeno[1,2,3-cd]pyrene	**76**	**J**	240	30	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Isophorone	ND		240	52	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Naphthalene	ND		240	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Nitrobenzene	ND		240	27	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
N-Nitrosodi-n-propylamine	ND		240	42	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
N-Nitrosodiphenylamine	ND		240	200	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Pentachlorophenol	ND		480	240	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Phenanthrene	ND		240	36	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Phenol	ND		240	37	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1
Pyrene	**120**	**J**	240	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*104*		*54 - 120*	*09/20/21 07:47*	*09/22/21 09:05*	*1*
2-Fluorobiphenyl	*89*		*60 - 120*	*09/20/21 07:47*	*09/22/21 09:05*	*1*
2-Fluorophenol	*58*		*52 - 120*	*09/20/21 07:47*	*09/22/21 09:05*	*1*
Nitrobenzene-d5	*70*		*53 - 120*	*09/20/21 07:47*	*09/22/21 09:05*	*1*
Phenol-d5	*59*		*54 - 120*	*09/20/21 07:47*	*09/22/21 09:05*	*1*
p-Terphenyl-d14	*95*		*79 - 130*	*09/20/21 07:47*	*09/22/21 09:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19300**		14.7	6.4	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Antimony	**1.5**	**J**	22.0	0.59	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Arsenic	**5.4**		2.9	0.59	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Barium	**64.2**		0.73	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Beryllium	**0.66**		0.29	0.041	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Cadmium	**0.45**		0.29	0.044	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Calcium	**2830**	**B**	73.3	4.8	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Chromium	**27.2**		0.73	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Cobalt	**12.6**		0.73	0.073	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Copper	**17.1**		1.5	0.31	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Iron	**25400**		14.7	5.1	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Lead	**41.1**		1.5	0.35	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Magnesium	**3710**		29.3	1.4	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Manganese	**768**	**B**	0.29	0.047	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Nickel	**24.1**		7.3	0.34	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Potassium	**2690**		44.0	29.3	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Selenium	**2.4**	**J**	5.9	0.59	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Silver	ND		0.88	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Sodium	**63.5**	**J**	205	19.1	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Thallium	ND		8.8	0.44	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Vanadium	**36.0**		0.73	0.16	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1
Zinc	**101**		2.9	0.94	mg/Kg	☼	09/17/21 15:27	09/21/21 01:41	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-17
Lab Sample ID: 480-189621-19
Date Collected: 09/14/21 13:05
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 69.1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093		0.033	0.0075	mg/Kg	☼	09/20/21 14:20	09/20/21 16:15	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-18
Date Collected: 09/14/21 14:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-20
Matrix: Solid
Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	69	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2,4,5-Trichlorophenol	ND		210	58	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2,4,6-Trichlorophenol	ND		210	43	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2,4-Dichlorophenol	ND		210	23	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2,4-Dimethylphenol	ND		210	52	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2,4-Dinitrophenol	ND		2100	990	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2-Chlorophenol	ND		420	39	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2-Methylnaphthalene	ND		210	43	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2-Methylphenol	ND		210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2-Nitroaniline	ND		420	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
2-Nitrophenol	ND		210	61	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
3,3'-Dichlorobenzidine	ND		420	250	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
3-Nitroaniline	ND		420	59	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4,6-Dinitro-2-methylphenol	ND		420	210	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4-Chloro-3-methylphenol	ND		210	53	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4-Chloroaniline	ND		210	53	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4-Methylphenol	ND		420	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4-Nitroaniline	ND		420	110	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
4-Nitrophenol	ND		420	150	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Acenaphthene	ND		210	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Acenaphthylene	ND		210	28	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Acetophenone	ND		210	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Anthracene	ND		210	53	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Atrazine	ND		210	74	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Benzaldehyde	ND		210	170	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Benzo[a]anthracene	**36**	**J**	210	21	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Benzo[a]pyrene	ND		210	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Benzo[b]fluoranthene	**69**	**J**	210	34	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Benzo[g,h,i]perylene	**45**	**J**	210	23	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Benzo[k]fluoranthene	ND		210	28	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Biphenyl	ND		210	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Bis(2-chloroethyl)ether	ND		210	28	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Bis(2-ethylhexyl) phthalate	ND		210	73	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Caprolactam	ND		210	64	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Carbazole	ND		210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Chrysene	ND		210	48	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Dibenz(a,h)anthracene	ND		210	38	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Dibenzofuran	ND		210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Diethyl phthalate	ND		210	28	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Di-n-butyl phthalate	ND		210	37	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1

Client Sample ID: SS-18
Lab Sample ID: 480-189621-20
Date Collected: 09/14/21 14:45
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Fluoranthene	**110**	**J**	210	23	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Fluorene	ND		210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Hexachlorobutadiene	ND		210	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Hexachloroethane	ND		210	28	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Indeno[1,2,3-cd]pyrene	**41**	**J**	210	26	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Isophorone	ND		210	45	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Naphthalene	ND		210	28	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Nitrobenzene	ND		210	24	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
N-Nitrosodi-n-propylamine	ND		210	37	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Pentachlorophenol	ND		420	210	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Phenanthrene	ND		210	32	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Phenol	ND		210	33	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1
Pyrene	**73**	**J**	210	25	ug/Kg	☼	09/20/21 07:47	09/22/21 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*114*		*54 - 120*	*09/20/21 07:47*	*09/22/21 09:29*	*1*
2-Fluorobiphenyl	*100*		*60 - 120*	*09/20/21 07:47*	*09/22/21 09:29*	*1*
2-Fluorophenol	*73*		*52 - 120*	*09/20/21 07:47*	*09/22/21 09:29*	*1*
Nitrobenzene-d5	*85*		*53 - 120*	*09/20/21 07:47*	*09/22/21 09:29*	*1*
Phenol-d5	*74*		*54 - 120*	*09/20/21 07:47*	*09/22/21 09:29*	*1*
p-Terphenyl-d14	*105*		*79 - 130*	*09/20/21 07:47*	*09/22/21 09:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.73**	**J**	2.1	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
4,4'-DDE	ND		2.1	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
4,4'-DDT	**2.1**		2.1	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Aldrin	ND		2.1	0.53	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
alpha-BHC	ND		2.1	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
beta-BHC	ND		2.1	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
cis-Chlordane	ND		2.1	1.1	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
delta-BHC	ND		2.1	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Dieldrin	ND		2.1	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Endosulfan I	ND		2.1	0.41	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Endosulfan II	ND		2.1	0.38	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Endosulfan sulfate	ND		2.1	0.40	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Endrin	ND		2.1	0.42	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Endrin aldehyde	ND		2.1	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Endrin ketone	ND		2.1	0.53	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
gamma-BHC (Lindane)	ND		2.1	0.39	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Heptachlor	ND		2.1	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Heptachlor epoxide	ND		2.1	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Methoxychlor	**1.8**	**J**	2.1	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
Toxaphene	ND		21	12	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1
trans-Chlordane	ND		2.1	0.68	ug/Kg	☼	09/21/21 08:39	09/22/21 15:21	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-18
Date Collected: 09/14/21 14:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-20
Matrix: Solid
Percent Solids: 77.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*134*	*S1+*	*45 - 120*	*09/21/21 08:39*	*09/22/21 15:21*	*1*
DCB Decachlorobiphenyl	*88*		*45 - 120*	*09/21/21 08:39*	*09/22/21 15:21*	*1*
Tetrachloro-m-xylene	*70*		*30 - 124*	*09/21/21 08:39*	*09/22/21 15:21*	*1*
Tetrachloro-m-xylene	*58*		*30 - 124*	*09/21/21 08:39*	*09/22/21 15:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	09/16/21 15:47	09/17/21 17:14	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	09/16/21 15:47	09/17/21 17:14	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	09/16/21 15:47	09/17/21 17:14	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	09/16/21 15:47	09/17/21 17:14	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	09/16/21 15:47	09/17/21 17:14	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/16/21 15:47	09/17/21 17:14	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	09/16/21 15:47	09/17/21 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*60 - 154*	*09/16/21 15:47*	*09/17/21 17:14*	*1*
Tetrachloro-m-xylene	*120*		*60 - 154*	*09/16/21 15:47*	*09/17/21 17:14*	*1*
DCB Decachlorobiphenyl	*161*		*65 - 174*	*09/16/21 15:47*	*09/17/21 17:14*	*1*
DCB Decachlorobiphenyl	*123*		*65 - 174*	*09/16/21 15:47*	*09/17/21 17:14*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.8	ug/Kg	☼	09/21/21 06:53	09/24/21 01:01	1
2,4-D	ND		21	13	ug/Kg	☼	09/21/21 06:53	09/24/21 01:01	1
Silvex (2,4,5-TP)	ND		21	7.7	ug/Kg	☼	09/21/21 06:53	09/24/21 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*09/21/21 06:53*	*09/24/21 01:01*	*1*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*09/21/21 06:53*	*09/24/21 01:01*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.61	0.20	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.048	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorohexanoic acid (PFHxA)	**0.042**	**J**	0.25	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluoroheptanoic acid (PFHpA)	ND		0.25	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorooctanoic acid (PFOA)	**0.054**	**J**	0.25	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorononanoic acid (PFNA)	**0.029**	**J**	0.25	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorodecanoic acid (PFDA)	ND		0.25	0.015	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluoroundecanoic acid (PFUnA)	ND		0.25	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorododecanoic acid (PFDoA)	ND		0.25	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorotridecanoic acid (PFTriA)	ND		0.25	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorotetradecanoic acid (PFTeA)	ND	F1	0.25	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.25	0.011	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.25	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.25	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorooctanesulfonic acid (PFOS)	**0.13**	**J I B**	0.25	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.25	0.015	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.25	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-18
Date Collected: 09/14/21 14:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-20
Matrix: Solid
Percent Solids: 77.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.5	0.045	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.5	0.056	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.5	0.038	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.5	0.020	ug/Kg	☼	09/21/21 08:52	09/22/21 08:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*70*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C4 PFHpA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C4 PFOA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C4 PFOS	*69*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C5 PFNA	*62*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C4 PFBA	*70*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C2 PFHxA	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C2 PFDA	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C2 PFUnA	*63*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C2 PFDoA	*62*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C8 FOSA	*65*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C5 PFPeA	*73*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C2 PFTeDA	*43*	*5-	*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
d3-NMeFOSAA	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
d5-NEtFOSAA	*63*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
M2-6:2 FTS	*90*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
M2-8:2 FTS	*72*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*
13C3 PFBS	*74*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18100**		12.8	5.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Antimony	**1.2**	**J**	19.1	0.51	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Arsenic	**7.1**		2.6	0.51	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Barium	**73.1**		0.64	0.14	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Beryllium	**0.84**		0.26	0.036	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Cadmium	**0.50**		0.26	0.038	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Calcium	**3520**	**B**	63.8	4.2	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Chromium	**25.3**		0.64	0.26	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Cobalt	**15.3**		0.64	0.064	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Copper	**22.0**		1.3	0.27	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Iron	**27000**		12.8	4.5	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Lead	**54.1**		1.3	0.31	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Magnesium	**3460**		25.5	1.2	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Manganese	**666**	**B**	0.26	0.041	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Nickel	**28.2**		6.4	0.29	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Potassium	**2630**		38.3	25.5	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Selenium	**2.8**	**J**	5.1	0.51	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Silver	ND		0.77	0.26	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Sodium	**75.5**	**J**	179	16.6	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Thallium	ND		7.7	0.38	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-18
Lab Sample ID: 480-189621-20
Date Collected: 09/14/21 14:45
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 77.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	35.7		0.64	0.14	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1
Zinc	109		2.6	0.82	mg/Kg	☼	09/17/21 15:27	09/21/21 01:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.021	0.0049	mg/Kg	☼	09/20/21 14:20	09/20/21 16:17	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-19
Date Collected: 09/14/21 16:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-21
Matrix: Solid
Percent Solids: 65.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		150	82	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2,4,5-Trichlorophenol	ND		250	69	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2,4,6-Trichlorophenol	ND		250	51	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2,4-Dichlorophenol	ND		250	27	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2,4-Dimethylphenol	ND		250	61	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2,4-Dinitrophenol	ND		2500	1200	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2,4-Dinitrotoluene	ND		250	52	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2,6-Dinitrotoluene	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2-Chloronaphthalene	ND		250	42	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2-Chlorophenol	ND		490	46	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2-Methylnaphthalene	ND		250	51	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2-Methylphenol	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2-Nitroaniline	ND		490	37	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
2-Nitrophenol	ND		250	72	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
3,3'-Dichlorobenzidine	ND		490	300	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
3-Nitroaniline	ND		490	70	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4,6-Dinitro-2-methylphenol	ND		490	250	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4-Bromophenyl phenyl ether	ND		250	36	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4-Chloro-3-methylphenol	ND		250	63	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4-Chloroaniline	ND		250	63	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4-Chlorophenyl phenyl ether	ND		250	31	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4-Methylphenol	ND		490	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4-Nitroaniline	ND		490	130	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
4-Nitrophenol	ND		490	180	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Acenaphthene	ND		250	37	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Acenaphthylene	ND		250	33	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Acetophenone	ND		250	34	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Anthracene	ND		250	63	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Atrazine	ND		250	88	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Benzaldehyde	ND	F2	250	200	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Benzo[a]anthracene	ND		250	25	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Benzo[a]pyrene	ND		250	37	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Benzo[b]fluoranthene	ND		250	40	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Benzo[g,h,i]perylene	ND		250	27	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Benzo[k]fluoranthene	ND		250	33	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Biphenyl	ND		250	37	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
bis (2-chloroisopropyl) ether	ND		250	51	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Bis(2-chloroethoxy)methane	ND		250	54	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Bis(2-chloroethyl)ether	ND		250	33	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Bis(2-ethylhexyl) phthalate	ND		250	87	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Butyl benzyl phthalate	ND		250	42	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Caprolactam	ND		250	76	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Carbazole	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Chrysene	ND		250	57	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Dibenz(a,h)anthracene	ND		250	45	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Dibenzofuran	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Diethyl phthalate	ND		250	33	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Dimethyl phthalate	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Di-n-butyl phthalate	ND		250	43	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-19
Lab Sample ID: 480-189621-21
Date Collected: 09/14/21 16:10
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Fluoranthene	ND		250	27	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Fluorene	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Hexachlorobenzene	ND		250	34	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Hexachlorobutadiene	ND		250	37	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Hexachlorocyclopentadiene	ND		250	34	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Hexachloroethane	ND		250	33	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Indeno[1,2,3-cd]pyrene	ND		250	31	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Isophorone	ND		250	54	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Naphthalene	ND		250	33	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Nitrobenzene	ND		250	28	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
N-Nitrosodi-n-propylamine	ND		250	43	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
N-Nitrosodiphenylamine	ND		250	210	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Pentachlorophenol	ND		490	250	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Phenanthrene	ND		250	37	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Phenol	ND		250	39	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1
Pyrene	ND		250	30	ug/Kg	☼	09/17/21 14:13	09/18/21 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*54 - 120*	*09/17/21 14:13*	*09/18/21 15:38*	*1*
2-Fluorobiphenyl	*97*		*60 - 120*	*09/17/21 14:13*	*09/18/21 15:38*	*1*
2-Fluorophenol	*82*		*52 - 120*	*09/17/21 14:13*	*09/18/21 15:38*	*1*
Nitrobenzene-d5	*87*		*53 - 120*	*09/17/21 14:13*	*09/18/21 15:38*	*1*
Phenol-d5	*83*		*54 - 120*	*09/17/21 14:13*	*09/18/21 15:38*	*1*
p-Terphenyl-d14	*107*		*79 - 130*	*09/17/21 14:13*	*09/18/21 15:38*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.5	0.49	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
4,4'-DDE	ND		2.5	0.53	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
4,4'-DDT	ND		2.5	0.59	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Aldrin	ND		2.5	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
alpha-BHC	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
beta-BHC	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
cis-Chlordane	ND		2.5	1.3	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
delta-BHC	ND		2.5	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Dieldrin	ND		2.5	0.60	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Endosulfan I	ND		2.5	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Endosulfan II	ND		2.5	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Endosulfan sulfate	ND		2.5	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Endrin	ND		2.5	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Endrin aldehyde	ND		2.5	0.64	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Endrin ketone	ND		2.5	0.62	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
gamma-BHC (Lindane)	ND		2.5	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Heptachlor	ND		2.5	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Heptachlor epoxide	ND		2.5	0.65	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Methoxychlor	ND		2.5	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
Toxaphene	ND		25	15	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1
trans-Chlordane	ND		2.5	0.80	ug/Kg	☼	09/21/21 08:39	09/22/21 16:00	1

Client Sample ID: SS-19
Date Collected: 09/14/21 16:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-21
Matrix: Solid
Percent Solids: 65.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		45 - 120	09/21/21 08:39	09/22/21 16:00	1
DCB Decachlorobiphenyl	95		45 - 120	09/21/21 08:39	09/22/21 16:00	1
Tetrachloro-m-xylene	96		30 - 124	09/21/21 08:39	09/22/21 16:00	1
Tetrachloro-m-xylene	101		30 - 124	09/21/21 08:39	09/22/21 16:00	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.061	mg/Kg	☼	09/16/21 15:47	09/17/21 17:27	1
PCB-1221	ND		0.31	0.061	mg/Kg	☼	09/16/21 15:47	09/17/21 17:27	1
PCB-1232	ND		0.31	0.061	mg/Kg	☼	09/16/21 15:47	09/17/21 17:27	1
PCB-1242	ND		0.31	0.061	mg/Kg	☼	09/16/21 15:47	09/17/21 17:27	1
PCB-1248	ND		0.31	0.061	mg/Kg	☼	09/16/21 15:47	09/17/21 17:27	1
PCB-1254	ND		0.31	0.15	mg/Kg	☼	09/16/21 15:47	09/17/21 17:27	1
PCB-1260	ND		0.31	0.15	mg/Kg	☼	09/16/21 15:47	09/17/21 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	137		60 - 154	09/16/21 15:47	09/17/21 17:27	1
Tetrachloro-m-xylene	129		60 - 154	09/16/21 15:47	09/17/21 17:27	1
DCB Decachlorobiphenyl	185	S1+	65 - 174	09/16/21 15:47	09/17/21 17:27	1
DCB Decachlorobiphenyl	141		65 - 174	09/16/21 15:47	09/17/21 17:27	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		25	8.0	ug/Kg	☼	09/21/21 06:53	09/24/21 01:30	1
2,4-D	ND		25	16	ug/Kg	☼	09/21/21 06:53	09/24/21 01:30	1
Silvex (2,4,5-TP)	ND		25	9.0	ug/Kg	☼	09/21/21 06:53	09/24/21 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	60		28 - 129	09/21/21 06:53	09/24/21 01:30	1
2,4-Dichlorophenylacetic acid	65		28 - 129	09/21/21 06:53	09/24/21 01:30	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.76	0.24	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluoropentanoic acid (PFPeA)	**0.065**	**J**	0.30	0.059	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorohexanoic acid (PFHxA)	**0.094**	**J**	0.30	0.033	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluoroheptanoic acid (PFHpA)	**0.067**	**J**	0.30	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorooctanoic acid (PFOA)	**0.41**		0.30	0.038	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorononanoic acid (PFNA)	**0.086**	**J**	0.30	0.027	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorodecanoic acid (PFDA)	**0.023**	**J B**	0.30	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluoroundecanoic acid (PFUnA)	**0.030**	**J I**	0.30	0.030	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.032	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorotridecanoic acid (PFTriA)	ND		0.30	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.30	0.035	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorobutanesulfonic acid (PFBS)	**0.016**	**J I B**	0.30	0.014	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorohexanesulfonic acid (PFHxS)	**0.032**	**J I B**	0.30	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.30	0.023	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-19
Date Collected: 09/14/21 16:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-21
Matrix: Solid
Percent Solids: 65.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.41**	**I B**	0.30	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.30	0.018	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.30	0.026	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.0	0.056	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.0	0.070	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	0.047	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		3.0	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 08:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C4 PFHpA	*78*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C4 PFOA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C4 PFOS	*67*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C5 PFNA	*71*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C4 PFBA	*72*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C2 PFHxA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C2 PFDA	*71*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C2 PFUnA	*65*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C2 PFDoA	*69*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C8 FOSA	*73*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C5 PFPeA	*77*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C2 PFTeDA	*35*	**5-*	*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
d3-NMeFOSAA	*70*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
d5-NEtFOSAA	*75*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
M2-6:2 FTS	*94*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
M2-8:2 FTS	*77*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*
13C3 PFBS	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25500**	**B**	14.8	6.5	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Antimony	**4.3**	**J**	22.2	0.59	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Arsenic	**5.6**		3.0	0.59	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Barium	**97.1**		0.74	0.16	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Beryllium	**1.1**		0.30	0.041	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Cadmium	**0.38**		0.30	0.044	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Calcium	**2630**		74.0	4.9	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Chromium	**35.0**	**^+**	0.74	0.30	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Cobalt	**18.0**		0.74	0.074	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Copper	**15.3**		1.5	0.31	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Iron	**35500**		14.8	5.2	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Lead	**22.0**		1.5	0.36	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Magnesium	**5320**		29.6	1.4	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Manganese	**1470**	**B**	0.30	0.047	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Nickel	**34.2**		7.4	0.34	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Potassium	**3350**		44.4	29.6	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Selenium	**3.9**	**J**	5.9	0.59	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-19
Lab Sample ID: 480-189621-21
Date Collected: 09/14/21 16:10
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.89	0.30	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Sodium	**91.1**	**J**	207	19.2	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Thallium	ND		8.9	0.44	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Vanadium	**46.4**		0.74	0.16	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1
Zinc	**97.8**		3.0	0.95	mg/Kg	☼	09/16/21 16:42	09/17/21 21:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.098**		0.065	0.015	mg/Kg	☼	09/20/21 14:40	09/20/21 17:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-20
Date Collected: 09/14/21 13:25
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-22
Matrix: Solid
Percent Solids: 70.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	77	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2,4,5-Trichlorophenol	ND		240	64	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2,4,6-Trichlorophenol	ND		240	47	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2,4-Dichlorophenol	ND		240	25	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2,4-Dimethylphenol	ND		240	57	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2,4-Dinitrophenol	ND		2300	1100	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2,4-Dinitrotoluene	ND		240	49	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2,6-Dinitrotoluene	ND		240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2-Chloronaphthalene	ND		240	39	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2-Chlorophenol	ND		460	43	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2-Methylnaphthalene	ND		240	47	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2-Methylphenol	ND		240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2-Nitroaniline	ND		460	35	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
2-Nitrophenol	ND		240	67	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
3,3'-Dichlorobenzidine	ND		460	280	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
3-Nitroaniline	ND		460	65	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4,6-Dinitro-2-methylphenol	ND		460	240	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4-Bromophenyl phenyl ether	ND		240	33	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4-Chloro-3-methylphenol	ND		240	58	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4-Chloroaniline	ND		240	58	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4-Chlorophenyl phenyl ether	ND		240	29	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4-Methylphenol	ND		460	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4-Nitroaniline	ND		460	120	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
4-Nitrophenol	ND		460	170	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Acenaphthene	ND		240	35	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Acenaphthylene	ND		240	31	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Acetophenone	ND		240	32	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Anthracene	ND		240	58	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Atrazine	ND		240	82	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Benzaldehyde	ND		240	190	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Benzo[a]anthracene	ND		240	24	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Benzo[a]pyrene	**52**	**J**	240	35	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Benzo[b]fluoranthene	**100**	**J**	240	38	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Benzo[g,h,i]perylene	ND		240	25	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Benzo[k]fluoranthene	ND		240	31	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Biphenyl	ND		240	35	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
bis (2-chloroisopropyl) ether	ND		240	47	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Bis(2-chloroethoxy)methane	ND		240	50	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Bis(2-chloroethyl)ether	ND		240	31	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Bis(2-ethylhexyl) phthalate	ND		240	81	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Butyl benzyl phthalate	ND		240	39	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Caprolactam	ND		240	71	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Carbazole	ND		240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Chrysene	**63**	**J**	240	53	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Dibenz(a,h)anthracene	ND		240	42	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Dibenzofuran	ND		240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Diethyl phthalate	ND		240	31	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Dimethyl phthalate	ND		240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Di-n-butyl phthalate	ND		240	40	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-20
Date Collected: 09/14/21 13:25
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-22
Matrix: Solid
Percent Solids: 70.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Fluoranthene	**110**	**J**	240	25	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Fluorene	ND		240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Hexachlorobenzene	ND		240	32	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Hexachlorobutadiene	ND		240	35	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Hexachlorocyclopentadiene	ND		240	32	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Hexachloroethane	ND		240	31	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Indeno[1,2,3-cd]pyrene	**39**	**J**	240	29	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Isophorone	ND		240	50	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Naphthalene	ND		240	31	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Nitrobenzene	ND		240	26	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
N-Nitrosodi-n-propylamine	ND		240	40	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
N-Nitrosodiphenylamine	ND		240	190	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Pentachlorophenol	ND		460	240	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Phenanthrene	ND		240	35	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Phenol	ND		240	36	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1
Pyrene	**84**	**J**	240	28	ug/Kg	☼	09/17/21 14:13	09/18/21 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*54 - 120*	*09/17/21 14:13*	*09/18/21 16:01*	*1*
2-Fluorobiphenyl	*93*		*60 - 120*	*09/17/21 14:13*	*09/18/21 16:01*	*1*
2-Fluorophenol	*76*		*52 - 120*	*09/17/21 14:13*	*09/18/21 16:01*	*1*
Nitrobenzene-d5	*82*		*53 - 120*	*09/17/21 14:13*	*09/18/21 16:01*	*1*
Phenol-d5	*81*		*54 - 120*	*09/17/21 14:13*	*09/18/21 16:01*	*1*
p-Terphenyl-d14	*99*		*79 - 130*	*09/17/21 14:13*	*09/18/21 16:01*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.4	0.46	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
4,4'-DDE	**1.7**	**J**	2.4	0.50	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
4,4'-DDT	**3.2**		2.4	0.55	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Aldrin	ND		2.4	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
alpha-BHC	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
beta-BHC	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
cis-Chlordane	ND		2.4	1.2	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
delta-BHC	ND		2.4	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Dieldrin	ND		2.4	0.57	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Endosulfan I	ND		2.4	0.45	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Endosulfan II	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Endosulfan sulfate	ND		2.4	0.44	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Endrin	ND		2.4	0.47	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Endrin aldehyde	**1.3**	**J**	2.4	0.60	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Endrin ketone	**1.2**	**J**	2.4	0.58	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
gamma-BHC (Lindane)	ND		2.4	0.43	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Heptachlor	ND		2.4	0.51	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Heptachlor epoxide	ND		2.4	0.61	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Methoxychlor	ND		2.4	0.48	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
Toxaphene	ND		24	14	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1
trans-Chlordane	ND		2.4	0.75	ug/Kg	☼	09/21/21 08:39	09/22/21 16:20	1

Client Sample ID: SS-20
Date Collected: 09/14/21 13:25
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-22
Matrix: Solid
Percent Solids: 70.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		45 - 120	09/21/21 08:39	09/22/21 16:20	1
DCB Decachlorobiphenyl	429	S1+	45 - 120	09/21/21 08:39	09/22/21 16:20	1
Tetrachloro-m-xylene	69		30 - 124	09/21/21 08:39	09/22/21 16:20	1
Tetrachloro-m-xylene	82		30 - 124	09/21/21 08:39	09/22/21 16:20	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.34	0.067	mg/Kg	☼	09/16/21 15:47	09/17/21 17:39	1
PCB-1221	ND		0.34	0.067	mg/Kg	☼	09/16/21 15:47	09/17/21 17:39	1
PCB-1232	ND		0.34	0.067	mg/Kg	☼	09/16/21 15:47	09/17/21 17:39	1
PCB-1242	ND		0.34	0.067	mg/Kg	☼	09/16/21 15:47	09/17/21 17:39	1
PCB-1248	ND		0.34	0.067	mg/Kg	☼	09/16/21 15:47	09/17/21 17:39	1
PCB-1254	ND		0.34	0.16	mg/Kg	☼	09/16/21 15:47	09/17/21 17:39	1
PCB-1260	ND		0.34	0.16	mg/Kg	☼	09/16/21 15:47	09/17/21 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	127		60 - 154	09/16/21 15:47	09/17/21 17:39	1
Tetrachloro-m-xylene	119		60 - 154	09/16/21 15:47	09/17/21 17:39	1
DCB Decachlorobiphenyl	168		65 - 174	09/16/21 15:47	09/17/21 17:39	1
DCB Decachlorobiphenyl	131		65 - 174	09/16/21 15:47	09/17/21 17:39	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		23	7.5	ug/Kg	☼	09/21/21 06:53	09/24/21 02:00	1
2,4-D	ND		23	15	ug/Kg	☼	09/21/21 06:53	09/24/21 02:00	1
Silvex (2,4,5-TP)	ND		23	8.4	ug/Kg	☼	09/21/21 06:53	09/24/21 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	76		28 - 129	09/21/21 06:53	09/24/21 02:00	1
2,4-Dichlorophenylacetic acid	81		28 - 129	09/21/21 06:53	09/24/21 02:00	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.22**	**J**	0.70	0.22	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluoropentanoic acid (PFPeA)	**0.055**	**J**	0.28	0.054	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorohexanoic acid (PFHxA)	**0.11**	**J**	0.28	0.031	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluoroheptanoic acid (PFHpA)	**0.097**	**J**	0.28	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorooctanoic acid (PFOA)	**0.25**	**J**	0.28	0.035	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorononanoic acid (PFNA)	**0.15**	**J**	0.28	0.025	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorodecanoic acid (PFDA)	**0.082**	**J B**	0.28	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluoroundecanoic acid (PFUnA)	**0.10**	**J**	0.28	0.028	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorododecanoic acid (PFDoA)	**0.033**	**J**	0.28	0.029	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorotridecanoic acid (PFTriA)	**0.030**	**J**	0.28	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.28	0.032	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorobutanesulfonic acid (PFBS)	**0.020**	**J B**	0.28	0.013	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorohexanesulfonic acid (PFHxS)	**0.023**	**J B**	0.28	0.019	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.28	0.021	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1

Client Sample ID: SS-20
Lab Sample ID: 480-189621-22
Date Collected: 09/14/21 13:25
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 70.2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**0.58**	**B**	0.28	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.28	0.017	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.28	0.024	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.8	0.051	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.8	0.064	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.8	0.043	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.8	0.022	ug/Kg	☼	09/21/21 08:52	09/22/21 08:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C4 PFHpA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C4 PFOA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C4 PFOS	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C5 PFNA	*76*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C4 PFBA	*71*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C2 PFHxA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C2 PFDA	*77*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C2 PFUnA	*71*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C2 PFDoA	*79*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C8 FOSA	*74*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C5 PFPeA	*77*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C2 PFTeDA	*81*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
d5-NEtFOSAA	*80*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
M2-6:2 FTS	*113*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*
13C3 PFBS	*82*		*50 - 150*	*09/21/21 08:52*	*09/22/21 08:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22100**	**B**	14.7	6.5	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Antimony	**3.8**	**J**	22.1	0.59	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Arsenic	**6.7**		2.9	0.59	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Barium	**56.0**		0.74	0.16	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Beryllium	**0.62**		0.29	0.041	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Cadmium	**0.37**		0.29	0.044	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Calcium	**1450**		73.6	4.9	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Chromium	**31.3**	**^+**	0.74	0.29	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Cobalt	**9.8**		0.74	0.074	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Copper	**19.7**		1.5	0.31	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Iron	**26800**		14.7	5.2	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Lead	**83.6**		1.5	0.35	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Magnesium	**4100**		29.4	1.4	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Manganese	**215**	**B**	0.29	0.047	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Nickel	**29.0**		7.4	0.34	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Potassium	**2800**		44.2	29.4	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Selenium	**2.5**	**J**	5.9	0.59	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-20
Lab Sample ID: 480-189621-22
Date Collected: 09/14/21 13:25
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 70.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.88	0.29	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Sodium	**56.5**	**J**	206	19.1	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Thallium	ND		8.8	0.44	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Vanadium	**43.1**		0.74	0.16	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1
Zinc	**111**		2.9	0.94	mg/Kg	☼	09/16/21 16:42	09/17/21 21:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.069**		0.032	0.0073	mg/Kg	☼	09/20/21 14:40	09/20/21 17:15	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)				
480-189621-1	TP-12 6in-2ft	97	104	103	103				
480-189621-2	TP-19 1-3ft	104	104	104	100				
480-189621-3	TP-28 4-5ft	100	103	104	103				
480-189621-4	TP-32 0-6in	103	107	106	104				
480-189621-5	BD-1	99	100	105	102				
480-189621-6	BD-2	106	100	106	105				
LCS 480-596511/1-A	Lab Control Sample	102	104	105	102				
LCSD 480-596511/2-A	Lab Control Sample Dup	101	105	103	104				
MB 480-596511/3-A	Method Blank	101	106	102	100				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)		
480-189621-1	TP-12 6in-2ft	105	98	76	84	79	104		
480-189621-1 MS	TP-12 6in-2ft	116	101	68	85	72	109		
480-189621-1 MSD	TP-12 6in-2ft	117	97	65	82	69	117		
480-189621-2	TP-19 1-3ft	86	88	69	78	71	96		
480-189621-3	TP-28 4-5ft	93	96	71	76	76	98		
480-189621-4	TP-32 0-6in	88	87	64	72	66	91		
480-189621-5	BD-1	95	92	66	79	70	102		
480-189621-6	BD-2	105	101	72	85	72	109		
480-189621-7	SS-5	102	94	69	78	73	97		
480-189621-8	SS-6	102	96	65	77	65	109		
480-189621-9	SS-7	115	102	68	84	70	119		
480-189621-10	SS-8	105	94	66	78	68	98		
480-189621-11	SS-9	105	92	69	79	69	95		
480-189621-12	SS-10	108	94	68	82	73	99		
480-189621-13	SS-11	112	102	68	82	74	104		
480-189621-14	SS-12	114	103	70	83	70	99		
480-189621-15	SS-13	106	91	72	80	72	102		
480-189621-16	SS-14	102	102	74	85	71	101		
480-189621-17	SS-15	91	91	54	68	61	86		
480-189621-18	SS-16	119	111	80	93	79	113		
480-189621-19	SS-17	104	89	58	70	59	95		
480-189621-20	SS-18	114	100	73	85	74	105		
480-189621-21	SS-19	98	97	82	87	83	107		
480-189621-21 MS	SS-19	101	88	75	82	78	96		
480-189621-21 MSD	SS-19	113	90	71	79	74	106		
480-189621-22	SS-20	97	93	76	82	81	99		
LCS 480-596875/2-A	Lab Control Sample	106	91	75	82	82	108		
LCS 480-597013/2-A	Lab Control Sample	121 S1+	102	75	86	78	108		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
MB 480-596875/1-A	Method Blank	88	91	81	83	84	102
MB 480-597013/1-A	Method Blank	92	95	71	78	70	106

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-189621-1	TP-12 6in-2ft	98	95	95	91
480-189621-1 MS	TP-12 6in-2ft	102	108	94	95
480-189621-1 MSD	TP-12 6in-2ft	105	110	104	96
480-189621-2	TP-19 1-3ft	100	96	98	93
480-189621-3	TP-28 4-5ft	104	106	100	97
480-189621-4	TP-32 0-6in	104	107	101	103
480-189621-5	BD-1	103	99	95	93
480-189621-6	BD-2	108	116	107	113
480-189621-7	SS-5	69	88	75	66
480-189621-8	SS-6	70	90	70	63
480-189621-9	SS-7	68	95	75	74
480-189621-10	SS-8	65	157 S1+	74	71
480-189621-11	SS-9	59	355 S1+	65	56
480-189621-14	SS-12	64	80	79	59
480-189621-15	SS-13	83	120	83	73
480-189621-16	SS-14	64	218 S1+	77	80
480-189621-17	SS-15	66	88	76	90
480-189621-20	SS-18	134 S1+	88	70	58
480-189621-21	SS-19	88	95	96	101
480-189621-22	SS-20	62	429 S1+	69	82
LCS 480-597134/2-A	Lab Control Sample	71	77	71	74
MB 480-597134/1-A	Method Blank	66	77	70	68

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-189621-1	TP-12 6in-2ft	130	139	148	180 S1+
480-189621-1 MS	TP-12 6in-2ft	132	137	151	193 S1+

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-189621-1 MSD	TP-12 6in-2ft	117	122	129	161
480-189621-2	TP-19 1-3ft	117	121	128	155
480-189621-3	TP-28 4-5ft	126	129	135	164
480-189621-4	TP-32 0-6in	124	128	132	168
480-189621-5	BD-1	129	132	140	183 S1+
480-189621-6	BD-2	124	126	137	177 S1+
480-189621-7	SS-5	105	109	110	141
480-189621-8	SS-6	113	113	121	153
480-189621-9	SS-7	127	128	137	177 S1+
480-189621-10	SS-8	121	128	133	173
480-189621-11	SS-9	118	121	123	160
480-189621-14	SS-12	114	119	120	152
480-189621-15	SS-13	121	126	132	168
480-189621-16	SS-14	108	113	109	136
480-189621-17	SS-15	122	127	124	156
480-189621-20	SS-18	120	121	123	161
480-189621-21	SS-19	129	137	141	185 S1+
480-189621-22	SS-20	119	127	131	168
LCS 480-596688/2-A	Lab Control Sample	146	153	166	212 S1+
MB 480-596688/1-A	Method Blank	105	110	117	137

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (28-129)	DCPAA2 (28-129)
480-189621-1	TP-12 6in-2ft	66	71
480-189621-2	TP-19 1-3ft	65	70
480-189621-3	TP-28 4-5ft	59	64
480-189621-4	TP-32 0-6in	72	69
480-189621-5	BD-1	67	71
480-189621-6	BD-2	68	74
480-189621-7	SS-5	71	73
480-189621-8	SS-6	71	81
480-189621-9	SS-7	71	79
480-189621-10	SS-8	68	82
480-189621-11	SS-9	75	72
480-189621-14	SS-12	68	75
480-189621-15	SS-13	64	75
480-189621-16	SS-14	64	71
480-189621-17	SS-15	78	83
480-189621-20	SS-18	72	69
480-189621-21	SS-19	60	65
480-189621-22	SS-20	76	81
LCS 480-597124/2-A	Lab Control Sample	64	73
MB 480-597124/1-A	Method Blank	63	69

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFHxS	C4PFHA	PFOA	PFOS	PFNA	PFBA	PFHxA	PFDA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(25-150)	(50-150)	(50-150)
480-189621-1	TP-12 6in-2ft	55	60	62	50	57	60	62	55
480-189621-2	TP-19 1-3ft	65	71	72	58	65	70	73	61
480-189621-3	TP-28 4-5ft	65	74	76	65	70	72	74	68
480-189621-4	TP-32 0-6in	74	79	77	75	70	73	78	72
480-189621-5	BD-1	71	71	75	65	67	71	74	67
480-189621-6	BD-2	67	75	76	65	68	71	74	72
480-189621-7	SS-5	87	83	86	85	78	84	81	78
480-189621-8	SS-6	84	84	85	82	78	82	81	79
480-189621-9	SS-7	82	77	84	82	84	73	74	80
480-189621-10	SS-8	79	77	79	79	75	74	76	82
480-189621-11	SS-9	72	69	74	76	73	68	67	76
480-189621-14	SS-12	78	81	80	78	74	73	79	76
480-189621-15	SS-13	81	79	78	74	73	75	80	70
480-189621-16	SS-14	87	84	85	83	83	77	78	79
480-189621-17	SS-15	84	77	82	83	79	75	77	78
480-189621-20	SS-18	70	72	75	69	62	70	74	67
480-189621-20 MS	SS-18	79	79	81	75	70	75	79	74
480-189621-20 MSD	SS-18	78	79	82	76	71	76	78	75
480-189621-21	SS-19	75	78	77	67	71	72	77	71
480-189621-22	SS-20	82	76	81	80	76	71	72	77
LCS 200-171603/2-A	Lab Control Sample	90	87	86	83	78	86	86	80
MB 200-171603/1-A	Method Blank	99	91	92	86	87	91	92	85

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA	PFDoA	PFOSA	PFPeA	PFTDA	d3NMFOS	d5NEFOS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(25-150)
480-189621-1	TP-12 6in-2ft	49 *5-	52	53	64	50	46 *5-	48 *5-	57
480-189621-2	TP-19 1-3ft	57	62	62	74	60	58	63	68
480-189621-3	TP-28 4-5ft	67	66	67	79	65	71	67	75
480-189621-4	TP-32 0-6in	70	75	78	77	80	73	73	97
480-189621-5	BD-1	62	66	67	76	67	64	64	77
480-189621-6	BD-2	70	69	69	76	72	72	72	76
480-189621-7	SS-5	78	77	78	86	80	80	85	113
480-189621-8	SS-6	73	76	79	84	82	76	82	115
480-189621-9	SS-7	79	80	70	80	81	82	102	122
480-189621-10	SS-8	73	79	76	77	75	75	85	105
480-189621-11	SS-9	73	74	66	73	69	78	82	134
480-189621-14	SS-12	73	81	72	78	79	77	82	108
480-189621-15	SS-13	74	83	75	82	84	72	75	104
480-189621-16	SS-14	81	85	68	79	81	106	98	148
480-189621-17	SS-15	75	80	71	78	84	81	91	106
480-189621-20	SS-18	63	62	65	73	43 *5-	65	63	90
480-189621-20 MS	SS-18	71	68	73	81	58	71	76	97
480-189621-20 MSD	SS-18	70	70	77	83	57	74	82	93
480-189621-21	SS-19	65	69	73	77	35 *5-	70	75	94
480-189621-22	SS-20	71	79	74	77	81	72	80	113
LCS 200-171603/2-A	Lab Control Sample	73	71	79	88	76	84	76	106
MB 200-171603/1-A	Method Blank	76	78	88	94	81	85	90	119

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (25-150)	C3PFBS (50-150)
480-189621-1	TP-12 6in-2ft	50	58
480-189621-2	TP-19 1-3ft	61	69
480-189621-3	TP-28 4-5ft	64	73
480-189621-4	TP-32 0-6in	86	83
480-189621-5	BD-1	67	72
480-189621-6	BD-2	67	72
480-189621-7	SS-5	104	89
480-189621-8	SS-6	106	93
480-189621-9	SS-7	134	86
480-189621-10	SS-8	114	85
480-189621-11	SS-9	140	76
480-189621-14	SS-12	100	85
480-189621-15	SS-13	97	85
480-189621-16	SS-14	180 *5+	89
480-189621-17	SS-15	128	87
480-189621-20	SS-18	72	74
480-189621-20 MS	SS-18	83	84
480-189621-20 MSD	SS-18	77	82
480-189621-21	SS-19	77	79
480-189621-22	SS-20	107	82
LCS 200-171603/2-A	Lab Control Sample	89	96
MB 200-171603/1-A	Method Blank	96	102

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

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

Lab Sample ID: MB 480-596511/3-A
Matrix: Solid
Analysis Batch: 596740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596511

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
2-Hexanone	ND		25	2.5	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Acetone	ND		25	4.2	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Benzene	ND		5.0	0.25	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Bromoform	ND		5.0	2.5	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Chloroform	ND		5.0	0.31	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Methyl acetate	ND		25	3.0	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Styrene	ND		5.0	0.25	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Toluene	ND		5.0	0.38	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/15/21 18:03	09/17/21 00:16	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/15/21 18:03	09/17/21 00:16	1

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

Lab Sample ID: MB 480-596511/3-A
Matrix: Solid
Analysis Batch: 596740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596511

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*09/15/21 18:03*	*09/17/21 00:16*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*	*09/15/21 18:03*	*09/17/21 00:16*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*09/15/21 18:03*	*09/17/21 00:16*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*09/15/21 18:03*	*09/17/21 00:16*	*1*

Lab Sample ID: LCS 480-596511/1-A
Matrix: Solid
Analysis Batch: 596740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596511

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.4		ug/Kg		99	77 - 121
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/Kg		99	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.6		ug/Kg		103	60 - 140
1,1,2-Trichloroethane	50.0	48.4		ug/Kg		97	78 - 122
1,1-Dichloroethane	50.0	46.5		ug/Kg		93	73 - 126
1,1-Dichloroethene	50.0	45.9		ug/Kg		92	59 - 125
1,2,4-Trichlorobenzene	50.0	50.0		ug/Kg		100	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.4		ug/Kg		97	63 - 124
1,2-Dibromoethane	50.0	49.5		ug/Kg		99	78 - 120
1,2-Dichlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
1,2-Dichloroethane	50.0	46.3		ug/Kg		93	77 - 122
1,2-Dichloropropane	50.0	47.1		ug/Kg		94	75 - 124
1,3-Dichlorobenzene	50.0	48.0		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	50.0	47.0		ug/Kg		94	73 - 120
2-Butanone (MEK)	250	256		ug/Kg		103	70 - 134
2-Hexanone	250	248		ug/Kg		99	59 - 130
4-Methyl-2-pentanone (MIBK)	250	237		ug/Kg		95	65 - 133
Acetone	250	305		ug/Kg		122	61 - 137
Benzene	50.0	47.9		ug/Kg		96	79 - 127
Bromodichloromethane	50.0	47.6		ug/Kg		95	80 - 122
Bromoform	50.0	50.4		ug/Kg		101	68 - 126
Bromomethane	50.0	57.4		ug/Kg		115	37 - 149
Carbon disulfide	50.0	47.6		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	48.2		ug/Kg		96	75 - 135
Chlorobenzene	50.0	48.7		ug/Kg		97	76 - 124
Chloroethane	50.0	54.3		ug/Kg		109	69 - 135
Chloroform	50.0	47.3		ug/Kg		95	80 - 120
Chloromethane	50.0	47.9		ug/Kg		96	63 - 127
cis-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	81 - 120
cis-1,3-Dichloropropene	50.0	47.7		ug/Kg		95	80 - 120
Cyclohexane	50.0	45.3		ug/Kg		91	65 - 120
Dibromochloromethane	50.0	49.1		ug/Kg		98	76 - 125
Dichlorodifluoromethane	50.0	46.3		ug/Kg		93	57 - 142
Ethylbenzene	50.0	49.1		ug/Kg		98	80 - 120
Isopropylbenzene	50.0	47.4		ug/Kg		95	72 - 120
Methyl acetate	100	97.1		ug/Kg		97	55 - 136
Methyl tert-butyl ether	50.0	48.6		ug/Kg		97	63 - 125
Methylcyclohexane	50.0	49.7		ug/Kg		99	60 - 140

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

Lab Sample ID: LCS 480-596511/1-A
Matrix: Solid
Analysis Batch: 596740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596511

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			50.0	46.4		ug/Kg		93	61 - 127		
Styrene			50.0	48.8		ug/Kg		98	80 - 120		
Tetrachloroethene			50.0	51.2		ug/Kg		102	74 - 122		
Toluene			50.0	48.7		ug/Kg		97	74 - 128		
trans-1,2-Dichloroethene			50.0	49.3		ug/Kg		99	78 - 126		
trans-1,3-Dichloropropene			50.0	46.7		ug/Kg		93	73 - 123		
Trichloroethene			50.0	47.9		ug/Kg		96	77 - 129		
Trichlorofluoromethane			50.0	56.9		ug/Kg		114	65 - 146		
Vinyl chloride			50.0	53.3		ug/Kg		107	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*102*		*71 - 125*

Lab Sample ID: LCSD 480-596511/2-A
Matrix: Solid
Analysis Batch: 596740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 596511

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	47.3		ug/Kg		95	77 - 121	4	20
1,1,2,2-Tetrachloroethane			50.0	49.2		ug/Kg		98	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	47.9		ug/Kg		96	60 - 140	8	20
1,1,2-Trichloroethane			50.0	48.3		ug/Kg		97	78 - 122	0	20
1,1-Dichloroethane			50.0	45.2		ug/Kg		90	73 - 126	3	20
1,1-Dichloroethene			50.0	44.2		ug/Kg		88	59 - 125	4	20
1,2,4-Trichlorobenzene			50.0	50.2		ug/Kg		100	64 - 120	0	20
1,2-Dibromo-3-Chloropropane			50.0	46.8		ug/Kg		94	63 - 124	3	20
1,2-Dibromoethane			50.0	50.4		ug/Kg		101	78 - 120	2	20
1,2-Dichlorobenzene			50.0	48.2		ug/Kg		96	75 - 120	1	20
1,2-Dichloroethane			50.0	45.6		ug/Kg		91	77 - 122	2	20
1,2-Dichloropropane			50.0	46.5		ug/Kg		93	75 - 124	1	20
1,3-Dichlorobenzene			50.0	47.5		ug/Kg		95	74 - 120	1	20
1,4-Dichlorobenzene			50.0	46.5		ug/Kg		93	73 - 120	1	20
2-Butanone (MEK)			250	253		ug/Kg		101	70 - 134	1	20
2-Hexanone			250	240		ug/Kg		96	59 - 130	3	20
4-Methyl-2-pentanone (MIBK)			250	238		ug/Kg		95	65 - 133	1	20
Acetone			250	294		ug/Kg		117	61 - 137	4	20
Benzene			50.0	47.7		ug/Kg		95	79 - 127	0	20
Bromodichloromethane			50.0	47.6		ug/Kg		95	80 - 122	0	20
Bromoform			50.0	50.8		ug/Kg		102	68 - 126	1	20
Bromomethane			50.0	57.3		ug/Kg		115	37 - 149	0	20
Carbon disulfide			50.0	45.3		ug/Kg		91	64 - 131	5	20
Carbon tetrachloride			50.0	46.4		ug/Kg		93	75 - 135	4	20
Chlorobenzene			50.0	48.2		ug/Kg		96	76 - 124	1	20
Chloroethane			50.0	51.9		ug/Kg		104	69 - 135	5	20
Chloroform			50.0	45.7		ug/Kg		91	80 - 120	3	20

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

Lab Sample ID: LCSD 480-596511/2-A
Matrix: Solid
Analysis Batch: 596740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 596511

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane			50.0	46.5		ug/Kg		93	63 - 127	3	20
cis-1,2-Dichloroethene			50.0	46.8		ug/Kg		94	81 - 120	4	20
cis-1,3-Dichloropropene			50.0	47.0		ug/Kg		94	80 - 120	1	20
Cyclohexane			50.0	43.1		ug/Kg		86	65 - 120	5	20
Dibromochloromethane			50.0	50.4		ug/Kg		101	76 - 125	3	20
Dichlorodifluoromethane			50.0	44.3		ug/Kg		89	57 - 142	4	20
Ethylbenzene			50.0	47.7		ug/Kg		95	80 - 120	3	20
Isopropylbenzene			50.0	46.3		ug/Kg		93	72 - 120	2	20
Methyl acetate			100	94.0		ug/Kg		94	55 - 136	3	20
Methyl tert-butyl ether			50.0	49.3		ug/Kg		99	63 - 125	2	20
Methylcyclohexane			50.0	46.0		ug/Kg		92	60 - 140	8	20
Methylene Chloride			50.0	46.1		ug/Kg		92	61 - 127	1	20
Styrene			50.0	48.9		ug/Kg		98	80 - 120	0	20
Tetrachloroethene			50.0	49.1		ug/Kg		98	74 - 122	4	20
Toluene			50.0	46.9		ug/Kg		94	74 - 128	4	20
trans-1,2-Dichloroethene			50.0	47.9		ug/Kg		96	78 - 126	3	20
trans-1,3-Dichloropropene			50.0	47.8		ug/Kg		96	73 - 123	2	20
Trichloroethene			50.0	46.3		ug/Kg		93	77 - 129	3	20
Trichlorofluoromethane			50.0	52.7		ug/Kg		105	65 - 146	8	20
Vinyl chloride			50.0	50.5		ug/Kg		101	61 - 133	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*105*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*104*		*71 - 125*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-596875/1-A
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		97	53	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2,4-Dichlorophenol	ND		170	17	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2,4-Dinitrophenol	ND		1600	760	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2,6-Dinitrotoluene	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2-Chloronaphthalene	ND		170	27	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2-Chlorophenol	ND		320	30	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2-Methylnaphthalene	ND		170	33	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2-Methylphenol	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2-Nitroaniline	ND		320	24	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
2-Nitrophenol	ND		170	47	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
3,3'-Dichlorobenzidine	ND		320	190	ug/Kg		09/17/21 14:13	09/18/21 14:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-596875/1-A
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		320	46	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4-Bromophenyl phenyl ether	ND		170	23	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4-Chloroaniline	ND		170	41	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4-Chlorophenyl phenyl ether	ND		170	20	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4-Methylphenol	ND		320	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4-Nitroaniline	ND		320	87	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
4-Nitrophenol	ND		320	120	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Acenaphthene	ND		170	24	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Acenaphthylene	ND		170	21	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Acetophenone	ND		170	22	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Anthracene	ND		170	41	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Atrazine	ND		170	57	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Benzaldehyde	ND		170	130	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Benzo[a]pyrene	ND		170	24	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Benzo[g,h,i]perylene	ND		170	17	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Benzo[k]fluoranthene	ND		170	21	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Biphenyl	ND		170	24	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Bis(2-chloroethyl)ether	ND		170	21	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Bis(2-ethylhexyl) phthalate	3330		170	56	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Butyl benzyl phthalate	ND		170	27	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Caprolactam	ND		170	50	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Carbazole	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Chrysene	ND		170	37	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Dibenzofuran	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Diethyl phthalate	ND		170	21	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Dimethyl phthalate	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Di-n-butyl phthalate	ND		170	28	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Di-n-octyl phthalate	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Fluoranthene	ND		170	17	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Fluorene	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Hexachlorobenzene	ND		170	22	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Hexachlorobutadiene	ND		170	24	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Hexachlorocyclopentadiene	ND		170	22	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Hexachloroethane	ND		170	21	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Indeno[1,2,3-cd]pyrene	ND		170	20	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Isophorone	ND		170	35	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Naphthalene	ND		170	21	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Nitrobenzene	ND		170	18	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
N-Nitrosodiphenylamine	ND		170	130	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Pentachlorophenol	ND		320	170	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Phenanthrene	ND		170	24	ug/Kg		09/17/21 14:13	09/18/21 14:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-596875/1-A
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		170	25	ug/Kg		09/17/21 14:13	09/18/21 14:03	1
Pyrene	ND		170	19	ug/Kg		09/17/21 14:13	09/18/21 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*54 - 120*	*09/17/21 14:13*	*09/18/21 14:03*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*09/17/21 14:13*	*09/18/21 14:03*	*1*
2-Fluorophenol	*81*		*52 - 120*	*09/17/21 14:13*	*09/18/21 14:03*	*1*
Nitrobenzene-d5	*83*		*53 - 120*	*09/17/21 14:13*	*09/18/21 14:03*	*1*
Phenol-d5	*84*		*54 - 120*	*09/17/21 14:13*	*09/18/21 14:03*	*1*
p-Terphenyl-d14	*102*		*79 - 130*	*09/17/21 14:13*	*09/18/21 14:03*	*1*

Lab Sample ID: LCS 480-596875/2-A
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1660	728		ug/Kg		44	23 - 120
2,4,5-Trichlorophenol	1660	1590		ug/Kg		96	59 - 126
2,4,6-Trichlorophenol	1660	1550		ug/Kg		94	59 - 123
2,4-Dichlorophenol	1660	1540		ug/Kg		93	61 - 120
2,4-Dimethylphenol	1660	1500		ug/Kg		90	59 - 120
2,4-Dinitrophenol	3320	3280		ug/Kg		99	41 - 146
2,4-Dinitrotoluene	1660	1610		ug/Kg		97	63 - 120
2,6-Dinitrotoluene	1660	1590		ug/Kg		96	66 - 120
2-Chloronaphthalene	1660	1490		ug/Kg		90	57 - 120
2-Chlorophenol	1660	1410		ug/Kg		85	53 - 120
2-Methylnaphthalene	1660	1420		ug/Kg		86	59 - 120
2-Methylphenol	1660	1380		ug/Kg		83	54 - 120
2-Nitroaniline	1660	1530		ug/Kg		92	61 - 120
2-Nitrophenol	1660	1430		ug/Kg		86	56 - 120
3,3'-Dichlorobenzidine	3320	2860		ug/Kg		86	54 - 120
3-Nitroaniline	1660	1320		ug/Kg		79	48 - 120
4,6-Dinitro-2-methylphenol	3320	3440		ug/Kg		103	49 - 122
4-Bromophenyl phenyl ether	1660	1800		ug/Kg		109	58 - 120
4-Chloro-3-methylphenol	1660	1500		ug/Kg		90	61 - 120
4-Chloroaniline	1660	1250		ug/Kg		75	38 - 120
4-Chlorophenyl phenyl ether	1660	1590		ug/Kg		96	63 - 124
4-Methylphenol	1660	1410		ug/Kg		85	55 - 120
4-Nitroaniline	1660	1480		ug/Kg		89	56 - 120
4-Nitrophenol	3320	3240		ug/Kg		98	43 - 147
Acenaphthene	1660	1520		ug/Kg		92	62 - 120
Acenaphthylene	1660	1610		ug/Kg		97	58 - 121
Acetophenone	1660	1410		ug/Kg		85	54 - 120
Anthracene	1660	1730		ug/Kg		104	62 - 120
Atrazine	3320	3190		ug/Kg		96	60 - 127
Benzaldehyde	3320	719		ug/Kg		22	10 - 150
Benzo[a]anthracene	1660	1720		ug/Kg		104	65 - 120
Benzo[a]pyrene	1660	1680		ug/Kg		101	64 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-596875/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 596938
Prep Batch: 596875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	1660	1840		ug/Kg		111	64 - 120
Benzo[g,h,i]perylene	1660	1720		ug/Kg		104	45 - 145
Benzo[k]fluoranthene	1660	1730		ug/Kg		104	65 - 120
Biphenyl	1660	1530		ug/Kg		92	59 - 120
bis (2-chloroisopropyl) ether	1660	1110		ug/Kg		67	44 - 120
Bis(2-chloroethoxy)methane	1660	1370		ug/Kg		82	55 - 120
Bis(2-chloroethyl)ether	1660	1290		ug/Kg		78	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1760		ug/Kg		106	61 - 133
Butyl benzyl phthalate	1660	1860		ug/Kg		112	61 - 129
Caprolactam	3320	3020		ug/Kg		91	47 - 120
Carbazole	1660	1700		ug/Kg		102	65 - 120
Chrysene	1660	1710		ug/Kg		103	64 - 120
Dibenz(a,h)anthracene	1660	1790		ug/Kg		108	54 - 132
Dibenzofuran	1660	1570		ug/Kg		94	63 - 120
Diethyl phthalate	1660	1680		ug/Kg		101	66 - 120
Dimethyl phthalate	1660	1630		ug/Kg		98	65 - 124
Di-n-butyl phthalate	1660	1770		ug/Kg		107	58 - 130
Di-n-octyl phthalate	1660	1710		ug/Kg		103	57 - 133
Fluoranthene	1660	1640		ug/Kg		99	62 - 120
Fluorene	1660	1590		ug/Kg		96	63 - 120
Hexachlorobenzene	1660	1770		ug/Kg		107	60 - 120
Hexachlorobutadiene	1660	1500		ug/Kg		90	45 - 120
Hexachlorocyclopentadiene	1660	1360		ug/Kg		82	47 - 120
Hexachloroethane	1660	1270		ug/Kg		76	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1700		ug/Kg		102	56 - 134
Isophorone	1660	1430		ug/Kg		86	56 - 120
Naphthalene	1660	1410		ug/Kg		85	55 - 120
Nitrobenzene	1660	1350		ug/Kg		81	54 - 120
N-Nitrosodi-n-propylamine	1660	1390		ug/Kg		84	52 - 120
Pentachlorophenol	3320	2950		ug/Kg		89	51 - 120
Phenanthrene	1660	1630		ug/Kg		98	60 - 120
Phenol	1660	1280		ug/Kg		77	53 - 120
Pyrene	1660	1710		ug/Kg		103	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*54 - 120*
2-Fluorobiphenyl	*91*		*60 - 120*
2-Fluorophenol	*75*		*52 - 120*
Nitrobenzene-d5	*82*		*53 - 120*
Phenol-d5	*82*		*54 - 120*
p-Terphenyl-d14	*108*		*79 - 130*

Lab Sample ID: 480-189621-21 MS
Client Sample ID: SS-19
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 596938
Prep Batch: 596875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		2510	1200		ug/Kg	☼	48	13 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189621-21 MS
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: SS-19
Prep Type: Total/NA
Prep Batch: 596875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		2510	2310		ug/Kg	☼	92	46 - 120
2,4,6-Trichlorophenol	ND		2510	2330		ug/Kg	☼	93	41 - 123
2,4-Dichlorophenol	ND		2510	2130		ug/Kg	☼	85	45 - 120
2,4-Dimethylphenol	ND		2510	2200		ug/Kg	☼	87	52 - 120
2,4-Dinitrophenol	ND		5020	4700		ug/Kg	☼	94	41 - 146
2,4-Dinitrotoluene	ND		2510	2360		ug/Kg	☼	94	63 - 125
2,6-Dinitrotoluene	ND		2510	2370		ug/Kg	☼	94	66 - 120
2-Chloronaphthalene	ND		2510	2170		ug/Kg	☼	86	57 - 120
2-Chlorophenol	ND		2510	2010		ug/Kg	☼	80	43 - 120
2-Methylnaphthalene	ND		2510	2160		ug/Kg	☼	86	55 - 120
2-Methylphenol	ND		2510	1950		ug/Kg	☼	78	48 - 120
2-Nitroaniline	ND		2510	2190		ug/Kg	☼	87	61 - 120
2-Nitrophenol	ND		2510	2160		ug/Kg	☼	86	37 - 120
3,3'-Dichlorobenzidine	ND		5020	4230		ug/Kg	☼	84	37 - 126
3-Nitroaniline	ND		2510	2020		ug/Kg	☼	80	48 - 120
4,6-Dinitro-2-methylphenol	ND		5020	4760		ug/Kg	☼	95	23 - 149
4-Bromophenyl phenyl ether	ND		2510	2610		ug/Kg	☼	104	58 - 120
4-Chloro-3-methylphenol	ND		2510	2240		ug/Kg	☼	89	49 - 125
4-Chloroaniline	ND		2510	1870		ug/Kg	☼	74	38 - 120
4-Chlorophenyl phenyl ether	ND		2510	2360		ug/Kg	☼	94	63 - 124
4-Methylphenol	ND		2510	2160		ug/Kg	☼	86	50 - 120
4-Nitroaniline	ND		2510	2050		ug/Kg	☼	82	47 - 120
4-Nitrophenol	ND		5020	4850		ug/Kg	☼	97	31 - 147
Acenaphthene	ND		2510	2190		ug/Kg	☼	87	60 - 120
Acenaphthylene	ND		2510	2370		ug/Kg	☼	94	58 - 121
Acetophenone	ND		2510	2060		ug/Kg	☼	82	47 - 120
Anthracene	ND		2510	2430		ug/Kg	☼	97	62 - 120
Atrazine	ND		5020	4590		ug/Kg	☼	91	60 - 150
Benzaldehyde	ND	F2	5020	1540		ug/Kg	☼	31	10 - 150
Benzo[a]anthracene	ND		2510	2420		ug/Kg	☼	96	65 - 120
Benzo[a]pyrene	ND		2510	2370		ug/Kg	☼	95	64 - 120
Benzo[b]fluoranthene	ND		2510	2490		ug/Kg	☼	99	10 - 150
Benzo[g,h,i]perylene	ND		2510	2410		ug/Kg	☼	96	45 - 145
Benzo[k]fluoranthene	ND		2510	2570		ug/Kg	☼	102	23 - 150
Biphenyl	ND		2510	2210		ug/Kg	☼	88	58 - 120
bis (2-chloroisopropyl) ether	ND		2510	1660		ug/Kg	☼	66	31 - 120
Bis(2-chloroethoxy)methane	ND		2510	2020		ug/Kg	☼	81	52 - 120
Bis(2-chloroethyl)ether	ND		2510	1980		ug/Kg	☼	79	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2510	2430		ug/Kg	☼	97	61 - 133
Butyl benzyl phthalate	ND		2510	2480		ug/Kg	☼	99	61 - 120
Caprolactam	ND		5020	4730		ug/Kg	☼	94	37 - 133
Carbazole	ND		2510	2500		ug/Kg	☼	99	59 - 120
Chrysene	ND		2510	2400		ug/Kg	☼	96	64 - 120
Dibenz(a,h)anthracene	ND		2510	2480		ug/Kg	☼	99	54 - 132
Dibenzofuran	ND		2510	2250		ug/Kg	☼	90	62 - 120
Diethyl phthalate	ND		2510	2430		ug/Kg	☼	97	66 - 120
Dimethyl phthalate	ND		2510	2310		ug/Kg	☼	92	65 - 124
Di-n-butyl phthalate	ND		2510	2560		ug/Kg	☼	102	58 - 130
Di-n-octyl phthalate	ND		2510	2370		ug/Kg	☼	94	57 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189621-21 MS
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: SS-19
Prep Type: Total/NA
Prep Batch: 596875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	ND		2510	2430		ug/Kg	☼	97	62 - 120
Fluorene	ND		2510	2290		ug/Kg	☼	91	63 - 120
Hexachlorobenzene	ND		2510	2520		ug/Kg	☼	101	60 - 120
Hexachlorobutadiene	ND		2510	2210		ug/Kg	☼	88	45 - 120
Hexachlorocyclopentadiene	ND		2510	1860		ug/Kg	☼	74	31 - 120
Hexachloroethane	ND		2510	1940		ug/Kg	☼	77	21 - 120
Indeno[1,2,3-cd]pyrene	ND		2510	2430		ug/Kg	☼	97	56 - 134
Isophorone	ND		2510	2120		ug/Kg	☼	84	56 - 120
Naphthalene	ND		2510	2130		ug/Kg	☼	85	46 - 120
Nitrobenzene	ND		2510	1990		ug/Kg	☼	79	49 - 120
N-Nitrosodi-n-propylamine	ND		2510	1980		ug/Kg	☼	79	46 - 120
Pentachlorophenol	ND		5020	4120		ug/Kg	☼	82	25 - 136
Phenanthrene	ND		2510	2360		ug/Kg	☼	94	60 - 122
Phenol	ND		2510	1840		ug/Kg	☼	73	50 - 120
Pyrene	ND		2510	2330		ug/Kg	☼	93	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*54 - 120*
2-Fluorobiphenyl	*88*		*60 - 120*
2-Fluorophenol	*75*		*52 - 120*
Nitrobenzene-d5	*82*		*53 - 120*
Phenol-d5	*78*		*54 - 120*
p-Terphenyl-d14	*96*		*79 - 130*

Lab Sample ID: 480-189621-21 MSD
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: SS-19
Prep Type: Total/NA
Prep Batch: 596875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		2510	1110		ug/Kg	☼	44	13 - 120	8	50
2,4,5-Trichlorophenol	ND		2510	2450		ug/Kg	☼	98	46 - 120	6	18
2,4,6-Trichlorophenol	ND		2510	2360		ug/Kg	☼	94	41 - 123	1	19
2,4-Dichlorophenol	ND		2510	2070		ug/Kg	☼	82	45 - 120	3	19
2,4-Dimethylphenol	ND		2510	2130		ug/Kg	☼	85	52 - 120	3	42
2,4-Dinitrophenol	ND		5020	4930		ug/Kg	☼	98	41 - 146	5	22
2,4-Dinitrotoluene	ND		2510	2400		ug/Kg	☼	96	63 - 125	2	20
2,6-Dinitrotoluene	ND		2510	2460		ug/Kg	☼	98	66 - 120	4	15
2-Chloronaphthalene	ND		2510	2250		ug/Kg	☼	90	57 - 120	4	21
2-Chlorophenol	ND		2510	1890		ug/Kg	☼	75	43 - 120	6	25
2-Methylnaphthalene	ND		2510	2050		ug/Kg	☼	82	55 - 120	5	21
2-Methylphenol	ND		2510	1880		ug/Kg	☼	75	48 - 120	4	27
2-Nitroaniline	ND		2510	2140		ug/Kg	☼	85	61 - 120	2	15
2-Nitrophenol	ND		2510	2090		ug/Kg	☼	83	37 - 120	3	18
3,3'-Dichlorobenzidine	ND		5020	4290		ug/Kg	☼	85	37 - 126	1	25
3-Nitroaniline	ND		2510	2020		ug/Kg	☼	80	48 - 120	0	19
4,6-Dinitro-2-methylphenol	ND		5020	5320		ug/Kg	☼	106	23 - 149	11	15
4-Bromophenyl phenyl ether	ND		2510	2580		ug/Kg	☼	103	58 - 120	1	15
4-Chloro-3-methylphenol	ND		2510	2290		ug/Kg	☼	91	49 - 125	2	27

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189621-21 MSD
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: SS-19
Prep Type: Total/NA
Prep Batch: 596875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chloroaniline	ND		2510	1550		ug/Kg	☼	62	38 - 120	19	22
4-Chlorophenyl phenyl ether	ND		2510	2420		ug/Kg	☼	96	63 - 124	2	16
4-Methylphenol	ND		2510	1940		ug/Kg	☼	77	50 - 120	11	24
4-Nitroaniline	ND		2510	2100		ug/Kg	☼	84	47 - 120	2	24
4-Nitrophenol	ND		5020	5030		ug/Kg	☼	100	31 - 147	4	25
Acenaphthene	ND		2510	2270		ug/Kg	☼	90	60 - 120	4	35
Acenaphthylene	ND		2510	2460		ug/Kg	☼	98	58 - 121	4	18
Acetophenone	ND		2510	2000		ug/Kg	☼	80	47 - 120	3	20
Anthracene	ND		2510	2580		ug/Kg	☼	103	62 - 120	6	15
Atrazine	ND		5020	4970		ug/Kg	☼	99	60 - 150	8	20
Benzaldehyde	ND	F2	5020	909	F2	ug/Kg	☼	18	10 - 150	51	20
Benzo[a]anthracene	ND		2510	2500		ug/Kg	☼	100	65 - 120	3	15
Benzo[a]pyrene	ND		2510	2510		ug/Kg	☼	100	64 - 120	6	15
Benzo[b]fluoranthene	ND		2510	2630		ug/Kg	☼	105	10 - 150	5	15
Benzo[g,h,i]perylene	ND		2510	2520		ug/Kg	☼	100	45 - 145	4	15
Benzo[k]fluoranthene	ND		2510	2490		ug/Kg	☼	99	23 - 150	3	22
Biphenyl	ND		2510	2230		ug/Kg	☼	89	58 - 120	0	20
bis (2-chloroisopropyl) ether	ND		2510	1530		ug/Kg	☼	61	31 - 120	8	24
Bis(2-chloroethoxy)methane	ND		2510	1920		ug/Kg	☼	77	52 - 120	5	17
Bis(2-chloroethyl)ether	ND		2510	1890		ug/Kg	☼	75	45 - 120	5	21
Bis(2-ethylhexyl) phthalate	ND		2510	2520		ug/Kg	☼	101	61 - 133	4	15
Butyl benzyl phthalate	ND		2510	2550		ug/Kg	☼	102	61 - 120	3	16
Caprolactam	ND		5020	4780		ug/Kg	☼	95	37 - 133	1	20
Carbazole	ND		2510	2600		ug/Kg	☼	104	59 - 120	4	20
Chrysene	ND		2510	2530		ug/Kg	☼	101	64 - 120	5	15
Dibenz(a,h)anthracene	ND		2510	2610		ug/Kg	☼	104	54 - 132	5	15
Dibenzofuran	ND		2510	2370		ug/Kg	☼	94	62 - 120	5	15
Diethyl phthalate	ND		2510	2550		ug/Kg	☼	102	66 - 120	5	15
Dimethyl phthalate	ND		2510	2490		ug/Kg	☼	99	65 - 124	8	15
Di-n-butyl phthalate	ND		2510	2710		ug/Kg	☼	108	58 - 130	6	15
Di-n-octyl phthalate	ND		2510	2520		ug/Kg	☼	101	57 - 133	6	16
Fluoranthene	ND		2510	2580		ug/Kg	☼	103	62 - 120	6	15
Fluorene	ND		2510	2470		ug/Kg	☼	98	63 - 120	8	15
Hexachlorobenzene	ND		2510	2740		ug/Kg	☼	109	60 - 120	8	15
Hexachlorobutadiene	ND		2510	2180		ug/Kg	☼	87	45 - 120	2	44
Hexachlorocyclopentadiene	ND		2510	1870		ug/Kg	☼	74	31 - 120	1	49
Hexachloroethane	ND		2510	1840		ug/Kg	☼	73	21 - 120	5	46
Indeno[1,2,3-cd]pyrene	ND		2510	2490		ug/Kg	☼	99	56 - 134	2	15
Isophorone	ND		2510	2020		ug/Kg	☼	80	56 - 120	5	17
Naphthalene	ND		2510	1990		ug/Kg	☼	79	46 - 120	7	29
Nitrobenzene	ND		2510	1890		ug/Kg	☼	75	49 - 120	5	24
N-Nitrosodi-n-propylamine	ND		2510	1920		ug/Kg	☼	76	46 - 120	3	31
Pentachlorophenol	ND		5020	4810		ug/Kg	☼	96	25 - 136	16	35
Phenanthrene	ND		2510	2510		ug/Kg	☼	100	60 - 122	6	15
Phenol	ND		2510	1810		ug/Kg	☼	72	50 - 120	1	35
Pyrene	ND		2510	2500		ug/Kg	☼	99	61 - 133	7	35

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189621-21 MSD
Matrix: Solid
Analysis Batch: 596938

Client Sample ID: SS-19
Prep Type: Total/NA
Prep Batch: 596875

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	*113*		*54 - 120*
2-Fluorobiphenyl	*90*		*60 - 120*
2-Fluorophenol	*71*		*52 - 120*
Nitrobenzene-d5	*79*		*53 - 120*
Phenol-d5	*74*		*54 - 120*
p-Terphenyl-d14	*106*		*79 - 130*

Lab Sample ID: MB 480-597013/1-A
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		99	54	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2-Chlorophenol	ND		330	31	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2-Methylphenol	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2-Nitroaniline	ND		330	25	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
2-Nitrophenol	ND		170	47	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
3-Nitroaniline	ND		330	46	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4-Chloroaniline	ND		170	42	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4-Methylphenol	ND		330	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4-Nitroaniline	ND		330	88	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
4-Nitrophenol	ND		330	120	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Acenaphthene	ND		170	25	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Acenaphthylene	ND		170	22	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Acetophenone	ND		170	23	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Anthracene	ND		170	42	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Atrazine	ND		170	58	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Benzaldehyde	ND		170	130	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Biphenyl	ND		170	25	ug/Kg		09/20/21 07:47	09/22/21 00:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-597013/1-A
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Caprolactam	ND		170	50	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Carbazole	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Chrysene	ND		170	38	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Dibenzofuran	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Diethyl phthalate	ND		170	22	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Fluoranthene	ND		170	18	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Fluorene	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Hexachloroethane	ND		170	22	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Isophorone	ND		170	36	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Naphthalene	ND		170	22	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Nitrobenzene	ND		170	19	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Pentachlorophenol	ND		330	170	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Phenanthrene	ND		170	25	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Phenol	ND		170	26	ug/Kg		09/20/21 07:47	09/22/21 00:14	1
Pyrene	ND		170	20	ug/Kg		09/20/21 07:47	09/22/21 00:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*54 - 120*	*09/20/21 07:47*	*09/22/21 00:14*	*1*
2-Fluorobiphenyl	*95*		*60 - 120*	*09/20/21 07:47*	*09/22/21 00:14*	*1*
2-Fluorophenol	*71*		*52 - 120*	*09/20/21 07:47*	*09/22/21 00:14*	*1*
Nitrobenzene-d5	*78*		*53 - 120*	*09/20/21 07:47*	*09/22/21 00:14*	*1*
Phenol-d5	*70*		*54 - 120*	*09/20/21 07:47*	*09/22/21 00:14*	*1*
p-Terphenyl-d14	*106*		*79 - 130*	*09/20/21 07:47*	*09/22/21 00:14*	*1*

Lab Sample ID: LCS 480-597013/2-A
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1660	797		ug/Kg		48	23 - 120
2,4,5-Trichlorophenol	1660	1780		ug/Kg		107	59 - 126
2,4,6-Trichlorophenol	1660	1750		ug/Kg		105	59 - 123
2,4-Dichlorophenol	1660	1670		ug/Kg		100	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-597013/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 597248
Prep Batch: 597013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	1660	1620		ug/Kg		98	59 - 120
2,4-Dinitrophenol	3330	3010		ug/Kg		90	41 - 146
2,4-Dinitrotoluene	1660	1680		ug/Kg		101	63 - 120
2,6-Dinitrotoluene	1660	1650		ug/Kg		99	66 - 120
2-Chloronaphthalene	1660	1590		ug/Kg		95	57 - 120
2-Chlorophenol	1660	1360		ug/Kg		82	53 - 120
2-Methylnaphthalene	1660	1610		ug/Kg		97	59 - 120
2-Methylphenol	1660	1340		ug/Kg		81	54 - 120
2-Nitroaniline	1660	1490		ug/Kg		89	61 - 120
2-Nitrophenol	1660	1510		ug/Kg		91	56 - 120
3,3'-Dichlorobenzidine	3330	3040		ug/Kg		91	54 - 120
3-Nitroaniline	1660	1410		ug/Kg		85	48 - 120
4,6-Dinitro-2-methylphenol	3330	3480		ug/Kg		105	49 - 122
4-Bromophenyl phenyl ether	1660	1920		ug/Kg		116	58 - 120
4-Chloro-3-methylphenol	1660	1590		ug/Kg		95	61 - 120
4-Chloroaniline	1660	1390		ug/Kg		84	38 - 120
4-Chlorophenyl phenyl ether	1660	1770		ug/Kg		106	63 - 124
4-Methylphenol	1660	1370		ug/Kg		82	55 - 120
4-Nitroaniline	1660	1480		ug/Kg		89	56 - 120
4-Nitrophenol	3330	3900		ug/Kg		117	43 - 147
Acenaphthene	1660	1610		ug/Kg		97	62 - 120
Acenaphthylene	1660	1690		ug/Kg		101	58 - 121
Acetophenone	1660	1400		ug/Kg		84	54 - 120
Anthracene	1660	1800		ug/Kg		108	62 - 120
Atrazine	3330	3280		ug/Kg		99	60 - 127
Benzaldehyde	3330	2730		ug/Kg		82	10 - 150
Benzo[a]anthracene	1660	1750		ug/Kg		105	65 - 120
Benzo[a]pyrene	1660	1760		ug/Kg		106	64 - 120
Benzo[b]fluoranthene	1660	1770		ug/Kg		106	64 - 120
Benzo[g,h,i]perylene	1660	1920		ug/Kg		115	45 - 145
Benzo[k]fluoranthene	1660	1790		ug/Kg		108	65 - 120
Biphenyl	1660	1650		ug/Kg		99	59 - 120
bis (2-chloroisopropyl) ether	1660	908		ug/Kg		55	44 - 120
Bis(2-chloroethoxy)methane	1660	1290		ug/Kg		77	55 - 120
Bis(2-chloroethyl)ether	1660	1160		ug/Kg		70	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1530		ug/Kg		92	61 - 133
Butyl benzyl phthalate	1660	1570		ug/Kg		95	61 - 129
Caprolactam	3330	2630		ug/Kg		79	47 - 120
Carbazole	1660	1730		ug/Kg		104	65 - 120
Chrysene	1660	1760		ug/Kg		105	64 - 120
Dibenz(a,h)anthracene	1660	2030		ug/Kg		122	54 - 132
Dibenzofuran	1660	1720		ug/Kg		104	63 - 120
Diethyl phthalate	1660	1690		ug/Kg		101	66 - 120
Dimethyl phthalate	1660	1700		ug/Kg		102	65 - 124
Di-n-butyl phthalate	1660	1650		ug/Kg		99	58 - 130
Di-n-octyl phthalate	1660	1460		ug/Kg		88	57 - 133
Fluoranthene	1660	1730		ug/Kg		104	62 - 120
Fluorene	1660	1720		ug/Kg		103	63 - 120
Hexachlorobenzene	1660	1950		ug/Kg		117	60 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-597013/2-A
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	1660	1860		ug/Kg		112	45 - 120
Hexachlorocyclopentadiene	1660	1550		ug/Kg		93	47 - 120
Hexachloroethane	1660	1360		ug/Kg		81	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1840		ug/Kg		111	56 - 134
Isophorone	1660	1390		ug/Kg		83	56 - 120
Naphthalene	1660	1480		ug/Kg		89	55 - 120
Nitrobenzene	1660	1310		ug/Kg		79	54 - 120
N-Nitrosodi-n-propylamine	1660	1300		ug/Kg		78	52 - 120
Pentachlorophenol	3330	3160		ug/Kg		95	51 - 120
Phenanthrene	1660	1770		ug/Kg		106	60 - 120
Phenol	1660	1140		ug/Kg		68	53 - 120
Pyrene	1660	1770		ug/Kg		106	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*121*	*S1+*	*54 - 120*
2-Fluorobiphenyl	*102*		*60 - 120*
2-Fluorophenol	*75*		*52 - 120*
Nitrobenzene-d5	*86*		*53 - 120*
Phenol-d5	*78*		*54 - 120*
p-Terphenyl-d14	*108*		*79 - 130*

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		1980	939		ug/Kg	☼	47	13 - 120
2,4,5-Trichlorophenol	ND		1980	2010		ug/Kg	☼	101	46 - 120
2,4,6-Trichlorophenol	ND		1980	2050		ug/Kg	☼	103	41 - 123
2,4-Dichlorophenol	ND		1980	1900		ug/Kg	☼	96	45 - 120
2,4-Dimethylphenol	ND		1980	1880		ug/Kg	☼	95	52 - 120
2,4-Dinitrophenol	ND		3970	3220		ug/Kg	☼	81	41 - 146
2,4-Dinitrotoluene	ND		1980	1890		ug/Kg	☼	95	63 - 125
2,6-Dinitrotoluene	ND		1980	1950		ug/Kg	☼	98	66 - 120
2-Chloronaphthalene	ND		1980	1920		ug/Kg	☼	97	57 - 120
2-Chlorophenol	ND		1980	1530		ug/Kg	☼	77	43 - 120
2-Methylnaphthalene	ND		1980	1840		ug/Kg	☼	93	55 - 120
2-Methylphenol	ND		1980	1500		ug/Kg	☼	76	48 - 120
2-Nitroaniline	ND		1980	1790		ug/Kg	☼	90	61 - 120
2-Nitrophenol	ND		1980	1810		ug/Kg	☼	91	37 - 120
3,3'-Dichlorobenzidine	ND		3970	3620		ug/Kg	☼	91	37 - 126
3-Nitroaniline	ND		1980	1620		ug/Kg	☼	82	48 - 120
4,6-Dinitro-2-methylphenol	ND		3970	3920		ug/Kg	☼	99	23 - 149
4-Bromophenyl phenyl ether	ND		1980	2230		ug/Kg	☼	112	58 - 120
4-Chloro-3-methylphenol	ND		1980	1730		ug/Kg	☼	87	49 - 125
4-Chloroaniline	ND		1980	1550		ug/Kg	☼	78	38 - 120
4-Chlorophenyl phenyl ether	ND		1980	2070		ug/Kg	☼	105	63 - 124
4-Methylphenol	ND		1980	1550		ug/Kg	☼	78	50 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	ND		1980	1650		ug/Kg	☼	83	47 - 120
4-Nitrophenol	ND		3970	4310		ug/Kg	☼	109	31 - 147
Acenaphthene	ND		1980	1870		ug/Kg	☼	94	60 - 120
Acenaphthylene	ND		1980	2030		ug/Kg	☼	102	58 - 121
Acetophenone	ND		1980	1590		ug/Kg	☼	80	47 - 120
Anthracene	ND		1980	2020		ug/Kg	☼	102	62 - 120
Atrazine	ND		3970	3700		ug/Kg	☼	93	60 - 150
Benzaldehyde	ND		3970	2930		ug/Kg	☼	74	10 - 150
Benzo[a]anthracene	ND		1980	2030		ug/Kg	☼	103	65 - 120
Benzo[a]pyrene	ND		1980	2060		ug/Kg	☼	104	64 - 120
Benzo[b]fluoranthene	ND		1980	2120		ug/Kg	☼	107	10 - 150
Benzo[g,h,i]perylene	ND		1980	2260		ug/Kg	☼	114	45 - 145
Benzo[k]fluoranthene	ND		1980	2060		ug/Kg	☼	104	23 - 150
Biphenyl	ND		1980	1980		ug/Kg	☼	100	58 - 120
bis (2-chloroisopropyl) ether	ND		1980	1090		ug/Kg	☼	55	31 - 120
Bis(2-chloroethoxy)methane	ND		1980	1490		ug/Kg	☼	75	52 - 120
Bis(2-chloroethyl)ether	ND		1980	1310		ug/Kg	☼	66	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1980	1800		ug/Kg	☼	91	61 - 133
Butyl benzyl phthalate	ND		1980	1830		ug/Kg	☼	92	61 - 120
Caprolactam	ND		3970	2820		ug/Kg	☼	71	37 - 133
Carbazole	ND		1980	1940		ug/Kg	☼	98	59 - 120
Chrysene	ND		1980	2100		ug/Kg	☼	106	64 - 120
Dibenz(a,h)anthracene	ND		1980	2390		ug/Kg	☼	120	54 - 132
Dibenzofuran	ND		1980	2010		ug/Kg	☼	101	62 - 120
Diethyl phthalate	ND		1980	1930		ug/Kg	☼	97	66 - 120
Dimethyl phthalate	ND		1980	1910		ug/Kg	☼	96	65 - 124
Di-n-butyl phthalate	ND		1980	1860		ug/Kg	☼	93	58 - 130
Di-n-octyl phthalate	ND		1980	1670		ug/Kg	☼	84	57 - 133
Fluoranthene	ND		1980	1890		ug/Kg	☼	95	62 - 120
Fluorene	ND		1980	2000		ug/Kg	☼	101	63 - 120
Hexachlorobenzene	ND		1980	2250		ug/Kg	☼	113	60 - 120
Hexachlorobutadiene	ND		1980	2100		ug/Kg	☼	106	45 - 120
Hexachlorocyclopentadiene	ND		1980	1920		ug/Kg	☼	97	31 - 120
Hexachloroethane	ND		1980	1530		ug/Kg	☼	77	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1980	2210		ug/Kg	☼	111	56 - 134
Isophorone	ND		1980	1620		ug/Kg	☼	82	56 - 120
Naphthalene	ND		1980	1700		ug/Kg	☼	86	46 - 120
Nitrobenzene	ND		1980	1660		ug/Kg	☼	84	49 - 120
N-Nitrosodi-n-propylamine	ND		1980	1450		ug/Kg	☼	73	46 - 120
Pentachlorophenol	ND		3970	3630		ug/Kg	☼	91	25 - 136
Phenanthrene	ND		1980	2070		ug/Kg	☼	104	60 - 122
Phenol	ND		1980	1250		ug/Kg	☼	63	50 - 120
Pyrene	ND		1980	2120		ug/Kg	☼	107	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*116*		*54 - 120*
2-Fluorobiphenyl	*101*		*60 - 120*
2-Fluorophenol	*68*		*52 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597013

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	85		53 - 120
Phenol-d5	72		54 - 120
p-Terphenyl-d14	109		79 - 130

Lab Sample ID: 480-189621-1 MSD
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		1970	736		ug/Kg	☼	37	13 - 120	24	50
2,4,5-Trichlorophenol	ND		1970	1970		ug/Kg	☼	100	46 - 120	2	18
2,4,6-Trichlorophenol	ND		1970	1960		ug/Kg	☼	99	41 - 123	4	19
2,4-Dichlorophenol	ND		1970	1860		ug/Kg	☼	94	45 - 120	3	19
2,4-Dimethylphenol	ND		1970	1920		ug/Kg	☼	97	52 - 120	2	42
2,4-Dinitrophenol	ND		3950	3350		ug/Kg	☼	85	41 - 146	4	22
2,4-Dinitrotoluene	ND		1970	1940		ug/Kg	☼	99	63 - 125	3	20
2,6-Dinitrotoluene	ND		1970	1900		ug/Kg	☼	96	66 - 120	3	15
2-Chloronaphthalene	ND		1970	1820		ug/Kg	☼	92	57 - 120	5	21
2-Chlorophenol	ND		1970	1520		ug/Kg	☼	77	43 - 120	1	25
2-Methylnaphthalene	ND		1970	1770		ug/Kg	☼	90	55 - 120	4	21
2-Methylphenol	ND		1970	1450		ug/Kg	☼	74	48 - 120	3	27
2-Nitroaniline	ND		1970	1680		ug/Kg	☼	85	61 - 120	6	15
2-Nitrophenol	ND		1970	1780		ug/Kg	☼	90	37 - 120	2	18
3,3'-Dichlorobenzidine	ND		3950	3670		ug/Kg	☼	93	37 - 126	1	25
3-Nitroaniline	ND		1970	1490		ug/Kg	☼	76	48 - 120	8	19
4,6-Dinitro-2-methylphenol	ND		3950	3960		ug/Kg	☼	100	23 - 149	1	15
4-Bromophenyl phenyl ether	ND		1970	2270		ug/Kg	☼	115	58 - 120	2	15
4-Chloro-3-methylphenol	ND		1970	1800		ug/Kg	☼	91	49 - 125	4	27
4-Chloroaniline	ND		1970	1520		ug/Kg	☼	77	38 - 120	2	22
4-Chlorophenyl phenyl ether	ND		1970	2040		ug/Kg	☼	103	63 - 124	2	16
4-Methylphenol	ND		1970	1530		ug/Kg	☼	78	50 - 120	1	24
4-Nitroaniline	ND		1970	1470		ug/Kg	☼	74	47 - 120	11	24
4-Nitrophenol	ND		3950	4320		ug/Kg	☼	109	31 - 147	0	25
Acenaphthene	ND		1970	1830		ug/Kg	☼	93	60 - 120	2	35
Acenaphthylene	ND		1970	1950		ug/Kg	☼	99	58 - 121	4	18
Acetophenone	ND		1970	1540		ug/Kg	☼	78	47 - 120	3	20
Anthracene	ND		1970	2030		ug/Kg	☼	103	62 - 120	1	15
Atrazine	ND		3950	3800		ug/Kg	☼	96	60 - 150	3	20
Benzaldehyde	ND		3950	3070		ug/Kg	☼	78	10 - 150	5	20
Benzo[a]anthracene	ND		1970	2110		ug/Kg	☼	107	65 - 120	4	15
Benzo[a]pyrene	ND		1970	2070		ug/Kg	☼	105	64 - 120	0	15
Benzo[b]fluoranthene	ND		1970	2110		ug/Kg	☼	107	10 - 150	1	15
Benzo[g,h,i]perylene	ND		1970	2260		ug/Kg	☼	114	45 - 145	0	15
Benzo[k]fluoranthene	ND		1970	2120		ug/Kg	☼	107	23 - 150	3	22
Biphenyl	ND		1970	1900		ug/Kg	☼	96	58 - 120	4	20
bis (2-chloroisopropyl) ether	ND		1970	999		ug/Kg	☼	51	31 - 120	9	24
Bis(2-chloroethoxy)methane	ND		1970	1440		ug/Kg	☼	73	52 - 120	3	17
Bis(2-chloroethyl)ether	ND		1970	1270		ug/Kg	☼	64	45 - 120	3	21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189621-1 MSD
Matrix: Solid
Analysis Batch: 597248

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	ND		1970	1880		ug/Kg	☼	95	61 - 133	5	15
Butyl benzyl phthalate	ND		1970	1920		ug/Kg	☼	97	61 - 120	5	16
Caprolactam	ND		3950	2920		ug/Kg	☼	74	37 - 133	4	20
Carbazole	ND		1970	1890		ug/Kg	☼	96	59 - 120	3	20
Chrysene	ND		1970	2140		ug/Kg	☼	109	64 - 120	2	15
Dibenz(a,h)anthracene	ND		1970	2410		ug/Kg	☼	122	54 - 132	1	15
Dibenzofuran	ND		1970	1940		ug/Kg	☼	98	62 - 120	4	15
Diethyl phthalate	ND		1970	1920		ug/Kg	☼	97	66 - 120	1	15
Dimethyl phthalate	ND		1970	1910		ug/Kg	☼	97	65 - 124	0	15
Di-n-butyl phthalate	ND		1970	1890		ug/Kg	☼	96	58 - 130	2	15
Di-n-octyl phthalate	ND		1970	1710		ug/Kg	☼	86	57 - 133	2	16
Fluoranthene	ND		1970	1910		ug/Kg	☼	97	62 - 120	1	15
Fluorene	ND		1970	1930		ug/Kg	☼	98	63 - 120	3	15
Hexachlorobenzene	ND		1970	2230		ug/Kg	☼	113	60 - 120	1	15
Hexachlorobutadiene	ND		1970	2080		ug/Kg	☼	105	45 - 120	1	44
Hexachlorocyclopentadiene	ND		1970	1760		ug/Kg	☼	89	31 - 120	8	49
Hexachloroethane	ND		1970	1420		ug/Kg	☼	72	21 - 120	8	46
Indeno[1,2,3-cd]pyrene	ND		1970	2180		ug/Kg	☼	111	56 - 134	1	15
Isophorone	ND		1970	1610		ug/Kg	☼	82	56 - 120	0	17
Naphthalene	ND		1970	1650		ug/Kg	☼	83	46 - 120	3	29
Nitrobenzene	ND		1970	1580		ug/Kg	☼	80	49 - 120	5	24
N-Nitrosodi-n-propylamine	ND		1970	1470		ug/Kg	☼	74	46 - 120	1	31
Pentachlorophenol	ND		3950	3540		ug/Kg	☼	90	25 - 136	2	35
Phenanthrene	ND		1970	2020		ug/Kg	☼	102	60 - 122	2	15
Phenol	ND		1970	1260		ug/Kg	☼	64	50 - 120	1	35
Pyrene	ND		1970	2260		ug/Kg	☼	114	61 - 133	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*117*		*54 - 120*
2-Fluorobiphenyl	*97*		*60 - 120*
2-Fluorophenol	*65*		*52 - 120*
Nitrobenzene-d5	*82*		*53 - 120*
Phenol-d5	*69*		*54 - 120*
p-Terphenyl-d14	*117*		*79 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-597134/1-A
Matrix: Solid
Analysis Batch: 597313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Aldrin	ND		1.6	0.40	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
alpha-BHC	ND		1.6	0.29	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
beta-BHC	0.667	J	1.6	0.29	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
cis-Chlordane	ND		1.6	0.82	ug/Kg		09/21/21 08:39	09/22/21 09:09	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-597134/1-A
Matrix: Solid
Analysis Batch: 597313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		1.6	0.30	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Dieldrin	ND		1.6	0.39	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Endosulfan I	ND		1.6	0.31	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Endosulfan II	ND		1.6	0.29	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Endosulfan sulfate	ND		1.6	0.31	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Endrin	ND		1.6	0.32	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Endrin aldehyde	ND		1.6	0.42	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Endrin ketone	ND		1.6	0.40	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Heptachlor	ND		1.6	0.35	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Methoxychlor	ND		1.6	0.33	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
Toxaphene	ND		16	9.5	ug/Kg		09/21/21 08:39	09/22/21 09:09	1
trans-Chlordane	ND		1.6	0.52	ug/Kg		09/21/21 08:39	09/22/21 09:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*45 - 120*	*09/21/21 08:39*	*09/22/21 09:09*	*1*
DCB Decachlorobiphenyl	*77*		*45 - 120*	*09/21/21 08:39*	*09/22/21 09:09*	*1*
Tetrachloro-m-xylene	*70*		*30 - 124*	*09/21/21 08:39*	*09/22/21 09:09*	*1*
Tetrachloro-m-xylene	*68*		*30 - 124*	*09/21/21 08:39*	*09/22/21 09:09*	*1*

Lab Sample ID: LCS 480-597134/2-A
Matrix: Solid
Analysis Batch: 597313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.5	14.9		ug/Kg		91	56 - 120
4,4'-DDE	16.5	12.3		ug/Kg		75	44 - 120
4,4'-DDT	16.5	15.7		ug/Kg		96	38 - 120
Aldrin	16.5	11.8		ug/Kg		72	38 - 120
alpha-BHC	16.5	11.1		ug/Kg		67	39 - 120
beta-BHC	16.5	12.9		ug/Kg		79	40 - 120
cis-Chlordane	16.5	11.3		ug/Kg		69	47 - 120
delta-BHC	16.5	13.7		ug/Kg		83	45 - 120
Dieldrin	16.5	13.9		ug/Kg		84	58 - 120
Endosulfan I	16.5	13.6		ug/Kg		83	49 - 120
Endosulfan II	16.5	15.3		ug/Kg		93	55 - 120
Endosulfan sulfate	16.5	14.7		ug/Kg		89	49 - 124
Endrin	16.5	14.5		ug/Kg		88	58 - 120
Endrin aldehyde	16.5	14.0		ug/Kg		85	37 - 121
Endrin ketone	16.5	14.8		ug/Kg		90	46 - 123
gamma-BHC (Lindane)	16.5	11.9		ug/Kg		72	50 - 120
Heptachlor	16.5	13.8		ug/Kg		84	50 - 120
Heptachlor epoxide	16.5	14.0		ug/Kg		85	50 - 120
Methoxychlor	16.5	18.5		ug/Kg		113	58 - 133
trans-Chlordane	16.5	13.4		ug/Kg		82	48 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-597134/2-A
Matrix: Solid
Analysis Batch: 597313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*71*		*45 - 120*
DCB Decachlorobiphenyl	*77*		*45 - 120*
Tetrachloro-m-xylene	*71*		*30 - 124*
Tetrachloro-m-xylene	*74*		*30 - 124*

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 597313

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		19.7	22.3		ug/Kg	☼	114	37 - 126
4,4'-DDE	ND		19.7	18.3		ug/Kg	☼	93	34 - 120
4,4'-DDT	ND	F1	19.7	24.7	F1	ug/Kg	☼	126	43 - 123
Aldrin	ND	F2	19.7	19.6		ug/Kg	☼	100	37 - 125
alpha-BHC	ND		19.7	17.5		ug/Kg	☼	89	39 - 120
beta-BHC	ND		19.7	20.3		ug/Kg	☼	103	36 - 120
cis-Chlordane	ND		19.7	17.8		ug/Kg	☼	91	35 - 120
delta-BHC	ND		19.7	20.9		ug/Kg	☼	106	34 - 120
Dieldrin	ND		19.7	20.4		ug/Kg	☼	104	45 - 120
Endosulfan I	ND		19.7	20.6		ug/Kg	☼	105	39 - 120
Endosulfan II	ND		19.7	21.4		ug/Kg	☼	109	34 - 126
Endosulfan sulfate	ND		19.7	21.4		ug/Kg	☼	109	27 - 130
Endrin	ND		19.7	21.6		ug/Kg	☼	110	47 - 121
Endrin aldehyde	ND		19.7	18.8		ug/Kg	☼	96	33 - 123
Endrin ketone	0.91	J F1	19.7	23.5		ug/Kg	☼	115	43 - 126
gamma-BHC (Lindane)	ND		19.7	17.7		ug/Kg	☼	90	50 - 120
Heptachlor	ND		19.7	20.0		ug/Kg	☼	102	42 - 120
Heptachlor epoxide	ND		19.7	21.3		ug/Kg	☼	108	40 - 120
Methoxychlor	ND	F1	19.7	27.7		ug/Kg	☼	141	44 - 150
trans-Chlordane	ND		19.7	19.1		ug/Kg	☼	97	31 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*45 - 120*
DCB Decachlorobiphenyl	*108*		*45 - 120*
Tetrachloro-m-xylene	*94*		*30 - 124*
Tetrachloro-m-xylene	*95*		*30 - 124*

Lab Sample ID: 480-189621-1 MSD
Matrix: Solid
Analysis Batch: 597313

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		19.7	24.0		ug/Kg	☼	122	37 - 126	7	21
4,4'-DDE	ND		19.7	20.4		ug/Kg	☼	104	34 - 120	11	18
4,4'-DDT	ND	F1	19.7	28.0	F1	ug/Kg	☼	142	43 - 123	12	25
Aldrin	ND	F2	19.7	22.4	F2	ug/Kg	☼	114	37 - 125	13	12
alpha-BHC	ND		19.7	19.0		ug/Kg	☼	96	39 - 120	8	15
beta-BHC	ND		19.7	21.6		ug/Kg	☼	110	36 - 120	6	19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189621-1 MSD
Matrix: Solid
Analysis Batch: 597313

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 597134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-Chlordane	ND		19.7	20.8		ug/Kg	☼	106	35 - 120	16	23
delta-BHC	ND		19.7	22.6		ug/Kg	☼	115	34 - 120	8	14
Dieldrin	ND		19.7	22.0		ug/Kg	☼	112	45 - 120	8	12
Endosulfan I	ND		19.7	22.1		ug/Kg	☼	112	39 - 120	7	18
Endosulfan II	ND		19.7	22.1		ug/Kg	☼	112	34 - 126	4	26
Endosulfan sulfate	ND		19.7	23.3		ug/Kg	☼	118	27 - 130	8	35
Endrin	ND		19.7	22.8		ug/Kg	☼	116	47 - 121	6	20
Endrin aldehyde	ND		19.7	21.3		ug/Kg	☼	108	33 - 123	12	47
Endrin ketone	0.91	J F1	19.7	25.9	F1	ug/Kg	☼	127	43 - 126	10	37
gamma-BHC (Lindane)	ND		19.7	18.8		ug/Kg	☼	95	50 - 120	6	12
Heptachlor	ND		19.7	21.7		ug/Kg	☼	110	42 - 120	9	22
Heptachlor epoxide	ND		19.7	22.5		ug/Kg	☼	115	40 - 120	6	15
Methoxychlor	ND	F1	19.7	32.1	F1	ug/Kg	☼	163	44 - 150	15	24
trans-Chlordane	ND		19.7	19.9		ug/Kg	☼	101	31 - 120	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*105*		*45 - 120*
DCB Decachlorobiphenyl	*110*		*45 - 120*
Tetrachloro-m-xylene	*104*		*30 - 124*
Tetrachloro-m-xylene	*96*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-596688/1-A
Matrix: Solid
Analysis Batch: 596747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.042	mg/Kg		09/16/21 14:59	09/17/21 12:34	1
PCB-1221	ND		0.21	0.042	mg/Kg		09/16/21 14:59	09/17/21 12:34	1
PCB-1232	ND		0.21	0.042	mg/Kg		09/16/21 14:59	09/17/21 12:34	1
PCB-1242	ND		0.21	0.042	mg/Kg		09/16/21 14:59	09/17/21 12:34	1
PCB-1248	ND		0.21	0.042	mg/Kg		09/16/21 14:59	09/17/21 12:34	1
PCB-1254	ND		0.21	0.10	mg/Kg		09/16/21 14:59	09/17/21 12:34	1
PCB-1260	ND		0.21	0.10	mg/Kg		09/16/21 14:59	09/17/21 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*09/16/21 14:59*	*09/17/21 12:34*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*09/16/21 14:59*	*09/17/21 12:34*	*1*
DCB Decachlorobiphenyl	*137*		*65 - 174*	*09/16/21 14:59*	*09/17/21 12:34*	*1*
DCB Decachlorobiphenyl	*117*		*65 - 174*	*09/16/21 14:59*	*09/17/21 12:34*	*1*

Lab Sample ID: LCS 480-596688/2-A
Matrix: Solid
Analysis Batch: 596747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.21	3.26		mg/Kg		148	51 - 185		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-596688/2-A
Matrix: Solid
Analysis Batch: 596747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1260			2.21	3.69		mg/Kg		167	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*153*		*60 - 154*
Tetrachloro-m-xylene	*146*		*60 - 154*
DCB Decachlorobiphenyl	*212*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*166*		*65 - 174*

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 596747

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 596688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.24	3.00		mg/Kg	☼	134	50 - 177		
PCB-1260	ND		2.24	3.20		mg/Kg	☼	143	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*137*		*60 - 154*
Tetrachloro-m-xylene	*132*		*60 - 154*
DCB Decachlorobiphenyl	*193*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*151*		*65 - 174*

Lab Sample ID: 480-189621-1 MSD
Matrix: Solid
Analysis Batch: 596747

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 596688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.32	2.73		mg/Kg	☼	118	50 - 177	9	50
PCB-1260	ND		2.32	2.80		mg/Kg	☼	121	33 - 200	13	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*122*		*60 - 154*
Tetrachloro-m-xylene	*117*		*60 - 154*
DCB Decachlorobiphenyl	*161*		*65 - 174*
DCB Decachlorobiphenyl	*129*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-597124/1-A
Matrix: Solid
Analysis Batch: 597539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.2	ug/Kg		09/21/21 06:53	09/23/21 14:08	1
2,4-D	ND		16	10	ug/Kg		09/21/21 06:53	09/23/21 14:08	1
Silvex (2,4,5-TP)	ND		16	5.8	ug/Kg		09/21/21 06:53	09/23/21 14:08	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 480-597124/1-A
Matrix: Solid
Analysis Batch: 597539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597124

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	63		28 - 129	09/21/21 06:53	09/23/21 14:08	1
2,4-Dichlorophenylacetic acid	69		28 - 129	09/21/21 06:53	09/23/21 14:08	1

Lab Sample ID: LCS 480-597124/2-A
Matrix: Solid
Analysis Batch: 597539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			65.5	37.1		ug/Kg		57	41 - 120		
2,4-D			65.5	37.0		ug/Kg		57	40 - 120		
Silvex (2,4,5-TP)			65.5	37.2		ug/Kg		57	39 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	64		28 - 129
2,4-Dichlorophenylacetic acid	73		28 - 129

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-171603/1-A
Matrix: Solid
Analysis Batch: 171658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.16	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.039	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.022	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.020	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.025	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.018	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorodecanoic acid (PFDA)	0.0143	J	0.20	0.012	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.020	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.021	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.015	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.023	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorobutanesulfonic acid (PFBS)	0.0160	J	0.20	0.0093	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.0165	J	0.20	0.014	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.20	0.015	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorooctanesulfonic acid (PFOS)	0.0191	J	0.20	0.016	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorodecanesulfonic acid (PFDS)	0.0126	J	0.20	0.012	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
Perfluorooctanesulfonamide (PFOSA)	0.0171	J	0.20	0.017	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.0567	J	2.0	0.037	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.0735	J	2.0	0.046	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0	0.031	ug/Kg		09/21/21 08:52	09/22/21 05:49	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.016	ug/Kg		09/21/21 08:52	09/22/21 05:49	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	99		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C4 PFHpA	91		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C4 PFOA	92		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C4 PFOS	86		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C5 PFNA	87		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C4 PFBA	91		25 - 150	09/21/21 08:52	09/22/21 05:49	1
13C2 PFHxA	92		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C2 PFDA	85		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C2 PFUnA	76		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C2 PFDoA	78		50 - 150	09/21/21 08:52	09/22/21 05:49	1
13C8 FOSA	88		25 - 150	09/21/21 08:52	09/22/21 05:49	1
13C5 PFPeA	94		25 - 150	09/21/21 08:52	09/22/21 05:49	1
13C2 PFTeDA	81		50 - 150	09/21/21 08:52	09/22/21 05:49	1
d3-NMeFOSAA	85		50 - 150	09/21/21 08:52	09/22/21 05:49	1
d5-NEtFOSAA	90		50 - 150	09/21/21 08:52	09/22/21 05:49	1
M2-6:2 FTS	119		25 - 150	09/21/21 08:52	09/22/21 05:49	1
M2-8:2 FTS	96		25 - 150	09/21/21 08:52	09/22/21 05:49	1
13C3 PFBS	102		50 - 150	09/21/21 08:52	09/22/21 05:49	1

Lab Sample ID: LCS 200-171603/2-A
Matrix: Solid
Analysis Batch: 171658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.25		ug/Kg		113	70 - 130
Perfluoropentanoic acid (PFPeA)	2.00	2.25		ug/Kg		112	70 - 130
Perfluorohexanoic acid (PFHxA)	2.00	2.33		ug/Kg		116	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.00	2.17		ug/Kg		108	70 - 130
Perfluorooctanoic acid (PFOA)	2.00	2.31		ug/Kg		115	70 - 130
Perfluorononanoic acid (PFNA)	2.00	2.25		ug/Kg		112	70 - 130
Perfluorodecanoic acid (PFDA)	2.00	2.03		ug/Kg		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	2.00	2.40		ug/Kg		120	70 - 130
Perfluorododecanoic acid (PFDoA)	2.00	2.22		ug/Kg		111	70 - 130
Perfluorotridecanoic acid (PFTriA)	2.00	2.22		ug/Kg		111	70 - 130
Perfluorotetradecanoic acid (PFTeA)	2.00	2.45		ug/Kg		123	70 - 130
Perfluorobutanesulfonic acid (PFBS)	1.77	1.99		ug/Kg		113	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.99		ug/Kg		109	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.40		ug/Kg		126	70 - 130
Perfluorooctanesulfonic acid (PFOS)	1.86	2.03		ug/Kg		110	70 - 130
Perfluorodecanesulfonic acid (PFDS)	1.93	2.18		ug/Kg		113	70 - 130
Perfluorooctanesulfonamide (PFOSA)	2.00	2.20		ug/Kg		110	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.16		ug/Kg		108	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.39		ug/Kg		120	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-171603/2-A
Matrix: Solid
Analysis Batch: 171658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.90	2.04		ug/Kg		108	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.92	2.14		ug/Kg		112	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
18O2 PFHxS	*90*		*50 - 150*
13C4 PFHpA	*87*		*50 - 150*
13C4 PFOA	*86*		*50 - 150*
13C4 PFOS	*83*		*50 - 150*
13C5 PFNA	*78*		*50 - 150*
13C4 PFBA	*86*		*25 - 150*
13C2 PFHxA	*86*		*50 - 150*
13C2 PFDA	*80*		*50 - 150*
13C2 PFUnA	*73*		*50 - 150*
13C2 PFDoA	*71*		*50 - 150*
13C8 FOSA	*79*		*25 - 150*
13C5 PFPeA	*88*		*25 - 150*
13C2 PFTeDA	*76*		*50 - 150*
d3-NMeFOSAA	*84*		*50 - 150*
d5-NEtFOSAA	*76*		*50 - 150*
M2-6:2 FTS	*106*		*25 - 150*
M2-8:2 FTS	*89*		*25 - 150*
13C3 PFBS	*96*		*50 - 150*

Lab Sample ID: 480-189621-20 MS
Matrix: Solid
Analysis Batch: 171658

Client Sample ID: SS-18
Prep Type: Total/NA
Prep Batch: 171603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	ND		2.49	3.00		ug/Kg	☼	120	70 - 130
Perfluoropentanoic acid (PFPeA)	ND		2.49	2.84		ug/Kg	☼	114	70 - 130
Perfluorohexanoic acid (PFHxA)	0.042	J	2.49	3.10		ug/Kg	☼	122	70 - 130
Perfluoroheptanoic acid (PFHpA)	ND		2.49	2.84		ug/Kg	☼	114	70 - 130
Perfluorooctanoic acid (PFOA)	0.054	J	2.49	2.88		ug/Kg	☼	113	70 - 130
Perfluorononanoic acid (PFNA)	0.029	J	2.49	3.02		ug/Kg	☼	120	70 - 130
Perfluorodecanoic acid (PFDA)	ND		2.49	2.91		ug/Kg	☼	117	70 - 130
Perfluoroundecanoic acid (PFUnA)	ND		2.49	3.19		ug/Kg	☼	128	70 - 130
Perfluorododecanoic acid (PFDoA)	ND		2.49	2.85		ug/Kg	☼	114	70 - 130
Perfluorotridecanoic acid (PFTriA)	ND		2.49	2.69		ug/Kg	☼	108	70 - 130
Perfluorotetradecanoic acid (PFTeA)	ND	F1	2.49	3.40	F1	ug/Kg	☼	136	70 - 130
Perfluorobutanesulfonic acid (PFBS)	ND		2.20	2.57		ug/Kg	☼	117	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	ND		2.27	2.68		ug/Kg	☼	118	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.37	3.05		ug/Kg	☼	129	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-189621-20 MS
Matrix: Solid
Analysis Batch: 171658

Client Sample ID: SS-18
Prep Type: Total/NA
Prep Batch: 171603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	0.13	J I B	2.31	2.64	I	ug/Kg	☼	109	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		2.40	2.87		ug/Kg	☼	119	70 - 130
Perfluorooctanesulfonamide (PFOSA)	ND		2.49	2.96		ug/Kg	☼	119	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.49	3.00		ug/Kg	☼	120	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.49	2.87		ug/Kg	☼	115	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.36	2.48	J	ug/Kg	☼	105	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.39	2.82		ug/Kg	☼	118	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*79*		*50 - 150*
13C4 PFHpA	*79*		*50 - 150*
13C4 PFOA	*81*		*50 - 150*
13C4 PFOS	*75*		*50 - 150*
13C5 PFNA	*70*		*50 - 150*
13C4 PFBA	*75*		*25 - 150*
13C2 PFHxA	*79*		*50 - 150*
13C2 PFDA	*74*		*50 - 150*
13C2 PFUnA	*71*		*50 - 150*
13C2 PFDoA	*68*		*50 - 150*
13C8 FOSA	*73*		*25 - 150*
13C5 PFPeA	*81*		*25 - 150*
13C2 PFTeDA	*58*		*50 - 150*
d3-NMeFOSAA	*71*		*50 - 150*
d5-NEtFOSAA	*76*		*50 - 150*
M2-6:2 FTS	*97*		*25 - 150*
M2-8:2 FTS	*83*		*25 - 150*
13C3 PFBS	*84*		*50 - 150*

Lab Sample ID: 480-189621-20 MSD
Matrix: Solid
Analysis Batch: 171658

Client Sample ID: SS-18
Prep Type: Total/NA
Prep Batch: 171603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		2.53	2.96		ug/Kg	☼	117	70 - 130	1	20
Perfluoropentanoic acid (PFPeA)	ND		2.53	2.78		ug/Kg	☼	110	70 - 130	2	20
Perfluorohexanoic acid (PFHxA)	0.042	J	2.53	2.96		ug/Kg	☼	115	70 - 130	5	20
Perfluoroheptanoic acid (PFHpA)	ND		2.53	2.90		ug/Kg	☼	115	70 - 130	2	20
Perfluorooctanoic acid (PFOA)	0.054	J	2.53	2.81		ug/Kg	☼	109	70 - 130	3	20
Perfluorononanoic acid (PFNA)	0.029	J	2.53	3.01		ug/Kg	☼	118	70 - 130	0	20
Perfluorodecanoic acid (PFDA)	ND		2.53	2.92		ug/Kg	☼	115	70 - 130	0	20
Perfluoroundecanoic acid (PFUnA)	ND		2.53	3.30		ug/Kg	☼	130	70 - 130	4	20
Perfluorododecanoic acid (PFDoA)	ND		2.53	2.94		ug/Kg	☼	116	70 - 130	3	20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-189621-20 MSD
Matrix: Solid
Analysis Batch: 171658

Client Sample ID: SS-18
Prep Type: Total/NA
Prep Batch: 171603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorotridecanoic acid (PFTriA)	ND		2.53	2.52		ug/Kg	☼	100	70 - 130	6	20
Perfluorotetradecanoic acid (PFTeA)	ND	F1	2.53	3.27		ug/Kg	☼	129	70 - 130	4	20
Perfluorobutanesulfonic acid (PFBS)	ND		2.24	2.58		ug/Kg	☼	115	70 - 130	1	20
Perfluorohexanesulfonic acid (PFHxS)	ND		2.31	2.62		ug/Kg	☼	114	70 - 130	2	20
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.41	3.05		ug/Kg	☼	126	70 - 130	0	20
Perfluorooctanesulfonic acid (PFOS)	0.13	J I B	2.35	2.84	I	ug/Kg	☼	115	70 - 130	7	20
Perfluorodecanesulfonic acid (PFDS)	ND		2.44	2.98		ug/Kg	☼	122	70 - 130	4	20
Perfluorooctanesulfonamide (PFOSA)	ND		2.53	3.00		ug/Kg	☼	119	70 - 130	1	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.53	2.83		ug/Kg	☼	112	70 - 130	6	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.53	2.67		ug/Kg	☼	106	70 - 130	7	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.40	2.64		ug/Kg	☼	110	70 - 130	6	20
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.43	2.99		ug/Kg	☼	123	70 - 130	6	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
18O2 PFHxS	*78*		*50 - 150*
13C4 PFHpA	*79*		*50 - 150*
13C4 PFOA	*82*		*50 - 150*
13C4 PFOS	*76*		*50 - 150*
13C5 PFNA	*71*		*50 - 150*
13C4 PFBA	*76*		*25 - 150*
13C2 PFHxA	*78*		*50 - 150*
13C2 PFDA	*75*		*50 - 150*
13C2 PFUnA	*70*		*50 - 150*
13C2 PFDoA	*70*		*50 - 150*
13C8 FOSA	*77*		*25 - 150*
13C5 PFPeA	*83*		*25 - 150*
13C2 PFTeDA	*57*		*50 - 150*
d3-NMeFOSAA	*74*		*50 - 150*
d5-NEtFOSAA	*82*		*50 - 150*
M2-6:2 FTS	*93*		*25 - 150*
M2-8:2 FTS	*77*		*25 - 150*
13C3 PFBS	*82*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-596673/1-A
Matrix: Solid
Analysis Batch: 596958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.27	J	10.5	4.6	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Antimony	ND		15.7	0.42	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Arsenic	ND		2.1	0.42	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Barium	ND		0.52	0.12	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Beryllium	ND		0.21	0.029	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Cadmium	ND		0.21	0.031	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Calcium	ND		52.4	3.5	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Chromium	ND		0.52	0.21	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Cobalt	ND		0.52	0.052	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Copper	ND		1.0	0.22	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Iron	ND		10.5	3.7	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Lead	ND		1.0	0.25	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Magnesium	ND		20.9	0.97	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Manganese	0.0995	J	0.21	0.034	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Nickel	ND		5.2	0.24	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Potassium	ND		31.4	20.9	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Selenium	ND		4.2	0.42	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Silver	ND		0.63	0.21	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Sodium	ND		147	13.6	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Thallium	ND		6.3	0.31	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Vanadium	ND		0.52	0.12	mg/Kg		09/16/21 16:42	09/17/21 19:24	1
Zinc	ND		2.1	0.67	mg/Kg		09/16/21 16:42	09/17/21 19:24	1

Lab Sample ID: LCSSRM 480-596673/2-A
Matrix: Solid
Analysis Batch: 596958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596673

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	9299		mg/Kg		113.5	49.6 - 149.0
Antimony	110	99.12		mg/Kg		90.1	23.5 - 304.5
Arsenic	162	142.6		mg/Kg		88.0	67.3 - 125.3
Barium	138	216.1		mg/Kg		156.6	129.7 - 215.9
Beryllium	157	153.6		mg/Kg		97.9	80.9 - 135.0
Cadmium	135	124.0		mg/Kg		91.9	76.3 - 126.7
Calcium	4790	4444		mg/Kg		92.8	72.2 - 126.7
Chromium	117	143.6		mg/Kg		122.7	92.3 - 170.9
Cobalt	92.6	126.7		mg/Kg		136.8	98.1 - 163.1
Copper	143	50.72		mg/Kg		35.5	28.7 - 48.0
Iron	15100	14080		mg/Kg		93.3	32.6 - 153.6
Lead	77.6	138.2		mg/Kg		178.1	120.2 - 215.2

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-596673/2-A
Matrix: Solid
Analysis Batch: 596958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596673

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	2320	2317		mg/Kg		99.9	62.1 - 137.9
Manganese	319	270.0		mg/Kg		84.6	62.4 - 106.6
Nickel	79.9	57.10		mg/Kg		71.5	47.2 - 87.6
Potassium	2050	2073		mg/Kg		101.1	58.0 - 139.0
Selenium	172	154.4		mg/Kg		89.8	65.7 - 128.5
Silver	24.7	29.05		mg/Kg		117.6	93.1 - 178.5
Sodium	137	152.9		mg/Kg		111.6	33.9 - 160.6
Thallium	88.0	117.8		mg/Kg		133.8	86.5 - 167.0
Vanadium	99.9	62.43		mg/Kg		62.5	37.0 - 88.4
Zinc	312	147.3		mg/Kg		47.2	35.6 - 65.7

Lab Sample ID: MB 480-596868/1-A
Matrix: Solid
Analysis Batch: 597174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.7	4.3	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Antimony	ND		14.6	0.39	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Arsenic	ND		1.9	0.39	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Barium	ND		0.49	0.11	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Beryllium	ND		0.19	0.027	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Cadmium	ND		0.19	0.029	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Calcium	4.71	J	48.6	3.2	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Chromium	ND		0.49	0.19	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Cobalt	ND		0.49	0.049	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Copper	ND		0.97	0.20	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Iron	ND		9.7	3.4	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Lead	ND		0.97	0.23	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Magnesium	ND		19.4	0.90	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Manganese	0.0408	J	0.19	0.031	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Nickel	ND		4.9	0.22	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Potassium	ND		29.2	19.4	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Selenium	ND		3.9	0.39	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Silver	ND		0.58	0.19	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Sodium	ND		136	12.6	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Thallium	ND		5.8	0.29	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Vanadium	ND		0.49	0.11	mg/Kg		09/17/21 15:27	09/20/21 23:40	1
Zinc	ND		1.9	0.62	mg/Kg		09/17/21 15:27	09/20/21 23:40	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-596868/2-A
Matrix: Solid
Analysis Batch: 597174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596868

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8786		mg/Kg		107.3	49.6 - 149.0
Antimony	110	102.5		mg/Kg		93.2	23.5 - 304.5
Arsenic	162	141.3		mg/Kg		87.2	67.3 - 125.3
Barium	138	226.9		mg/Kg		164.4	129.7 - 215.9
Beryllium	157	161.1		mg/Kg		102.6	80.9 - 135.0
Cadmium	135	129.5		mg/Kg		95.9	76.3 - 126.7
Calcium	4790	4185		mg/Kg		87.4	72.2 - 126.7
Chromium	117	140.2		mg/Kg		119.8	92.3 - 170.9
Cobalt	92.6	126.5		mg/Kg		136.6	98.1 - 163.1
Copper	143	48.61		mg/Kg		34.0	28.7 - 48.0
Iron	15100	13710		mg/Kg		90.8	32.6 - 153.6
Lead	77.6	136.3		mg/Kg		175.7	120.2 - 215.2
Magnesium	2320	2176		mg/Kg		93.8	62.1 - 137.9
Manganese	319	253.6		mg/Kg		79.5	62.4 - 106.6
Nickel	79.9	57.22		mg/Kg		71.6	47.2 - 87.6
Potassium	2050	2027		mg/Kg		98.9	58.0 - 139.0
Selenium	172	153.2		mg/Kg		89.1	65.7 - 128.5
Silver	24.7	29.92		mg/Kg		121.1	93.1 - 178.5
Sodium	137	153.7		mg/Kg		112.2	33.9 - 160.6
Thallium	88.0	118.5		mg/Kg		134.6	86.5 - 167.0
Vanadium	99.9	61.66		mg/Kg		61.7	37.0 - 88.4
Zinc	312	137.4		mg/Kg		44.0	35.6 - 65.7

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 597174

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 596868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	18100		2260	36570	4	mg/Kg	☼	816	75 - 125
Antimony	1.3	J F1	45.2	18.52	F1	mg/Kg	☼	38	75 - 125
Arsenic	2.7		45.2	44.32		mg/Kg	☼	92	75 - 125
Barium	42.9	F1	45.2	115.0	F1	mg/Kg	☼	160	75 - 125
Beryllium	0.85		45.2	42.53		mg/Kg	☼	92	75 - 125
Cadmium	0.20	J	45.2	41.24		mg/Kg	☼	91	75 - 125
Calcium	61800	B	2260	17620	4	mg/Kg	☼	-1956	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 597174

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 596868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	29.1	F1	45.2	86.09	F1	mg/Kg	☼	126	75 - 125
Cobalt	14.3		45.2	60.19		mg/Kg	☼	102	75 - 125
Copper	25.3		45.2	67.21		mg/Kg	☼	93	75 - 125
Iron	25200		2260	31990	4	mg/Kg	☼	301	75 - 125
Lead	4.4		45.2	49.87		mg/Kg	☼	101	75 - 125
Magnesium	7910	F1	2260	11810	F1	mg/Kg	☼	172	75 - 125
Manganese	220	B F2	45.2	295.9	4	mg/Kg	☼	168	75 - 125
Nickel	50.2		45.2	103.6		mg/Kg	☼	118	75 - 125
Potassium	3410	F1	2260	11260	F1	mg/Kg	☼	347	75 - 125
Selenium	2.7	J	45.2	42.87		mg/Kg	☼	89	75 - 125
Silver	ND		11.3	10.62		mg/Kg	☼	94	75 - 125
Sodium	94.4	J	2260	2125		mg/Kg	☼	90	75 - 125
Thallium	ND		45.2	44.68		mg/Kg	☼	99	75 - 125
Vanadium	27.9	F1	45.2	96.50	F1	mg/Kg	☼	152	75 - 125
Zinc	43.6		45.2	93.53		mg/Kg	☼	110	75 - 125

Lab Sample ID: 480-189621-1 MSD
Matrix: Solid
Analysis Batch: 597174

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 596868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	18100		2490	38250	4	mg/Kg	☼	810	75 - 125	4	20
Antimony	1.3	J F1	49.7	22.34	F1	mg/Kg	☼	42	75 - 125	19	20
Arsenic	2.7		49.7	48.74		mg/Kg	☼	93	75 - 125	9	20
Barium	42.9	F1	49.7	126.9	F1	mg/Kg	☼	169	75 - 125	10	20
Beryllium	0.85		49.7	46.62		mg/Kg	☼	92	75 - 125	9	20
Cadmium	0.20	J	49.7	45.08		mg/Kg	☼	90	75 - 125	9	20
Calcium	61800	B	2480	18980	4	mg/Kg	☼	-1724	75 - 125	7	20
Chromium	29.1	F1	49.7	92.24	F1	mg/Kg	☼	127	75 - 125	7	20
Cobalt	14.3		49.7	70.93		mg/Kg	☼	114	75 - 125	16	20
Copper	25.3		49.7	74.53		mg/Kg	☼	99	75 - 125	10	20
Iron	25200		2480	32900	4	mg/Kg	☼	311	75 - 125	3	20
Lead	4.4		49.7	53.53		mg/Kg	☼	99	75 - 125	7	20
Magnesium	7910	F1	2480	12190	F1	mg/Kg	☼	172	75 - 125	3	20
Manganese	220	B F2	49.7	487.0	4 F2	mg/Kg	☼	538	75 - 125	49	20
Nickel	50.2		49.7	111.7		mg/Kg	☼	124	75 - 125	7	20
Potassium	3410	F1	2490	12100	F1	mg/Kg	☼	350	75 - 125	7	20
Selenium	2.7	J	49.7	46.28		mg/Kg	☼	88	75 - 125	8	20
Silver	ND		12.4	11.57		mg/Kg	☼	93	75 - 125	9	20
Sodium	94.4	J	2490	2324		mg/Kg	☼	90	75 - 125	9	20
Thallium	ND		49.7	48.19		mg/Kg	☼	97	75 - 125	8	20
Vanadium	27.9	F1	49.7	103.6	F1	mg/Kg	☼	153	75 - 125	7	20
Zinc	43.6		49.7	97.06		mg/Kg	☼	108	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-596899/1-A
Matrix: Solid
Analysis Batch: 597112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596899

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0045	mg/Kg		09/20/21 14:20	09/20/21 15:40	1

Lab Sample ID: LCSSRM 480-596899/2-A ^10
Matrix: Solid
Analysis Batch: 597112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596899

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	17.56		mg/Kg		64.6	59.9 - 140.1		

Lab Sample ID: 480-189621-1 MS
Matrix: Solid
Analysis Batch: 597112

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 596899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.030	F2	0.436	0.483		mg/Kg	☼	104	80 - 120		

Lab Sample ID: 480-189621-1 MSD
Matrix: Solid
Analysis Batch: 597112

Client Sample ID: TP-12 6in-2ft
Prep Type: Total/NA
Prep Batch: 596899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.030	F2	0.562	0.608	F2	mg/Kg	☼	103	80 - 120	23	20

Lab Sample ID: MB 480-597079/1-A
Matrix: Solid
Analysis Batch: 597112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022	0.0050	mg/Kg		09/20/21 14:40	09/20/21 16:51	1

Lab Sample ID: LCSSRM 480-597079/2-A ^10
Matrix: Solid
Analysis Batch: 597112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597079

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	19.66		mg/Kg		72.3	59.9 - 140.1		

GC/MS VOA

Prep Batch: 596511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	5035A_L	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	5035A_L	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	5035A_L	
480-189621-4	TP-32 0-6in	Total/NA	Solid	5035A_L	
480-189621-5	BD-1	Total/NA	Solid	5035A_L	
480-189621-6	BD-2	Total/NA	Solid	5035A_L	
MB 480-596511/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-596511/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-596511/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 596740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	8260C	596511
480-189621-2	TP-19 1-3ft	Total/NA	Solid	8260C	596511
480-189621-3	TP-28 4-5ft	Total/NA	Solid	8260C	596511
480-189621-4	TP-32 0-6in	Total/NA	Solid	8260C	596511
480-189621-5	BD-1	Total/NA	Solid	8260C	596511
480-189621-6	BD-2	Total/NA	Solid	8260C	596511
MB 480-596511/3-A	Method Blank	Total/NA	Solid	8260C	596511
LCS 480-596511/1-A	Lab Control Sample	Total/NA	Solid	8260C	596511
LCSD 480-596511/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	596511

GC/MS Semi VOA

Prep Batch: 596875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-21	SS-19	Total/NA	Solid	3550C	
480-189621-22	SS-20	Total/NA	Solid	3550C	
MB 480-596875/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596875/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189621-21 MS	SS-19	Total/NA	Solid	3550C	
480-189621-21 MSD	SS-19	Total/NA	Solid	3550C	

Analysis Batch: 596938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-21	SS-19	Total/NA	Solid	8270D	596875
480-189621-22	SS-20	Total/NA	Solid	8270D	596875
MB 480-596875/1-A	Method Blank	Total/NA	Solid	8270D	596875
LCS 480-596875/2-A	Lab Control Sample	Total/NA	Solid	8270D	596875
480-189621-21 MS	SS-19	Total/NA	Solid	8270D	596875
480-189621-21 MSD	SS-19	Total/NA	Solid	8270D	596875

Prep Batch: 597013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	3550C	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	3550C	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	3550C	
480-189621-4	TP-32 0-6in	Total/NA	Solid	3550C	
480-189621-5	BD-1	Total/NA	Solid	3550C	
480-189621-6	BD-2	Total/NA	Solid	3550C	
480-189621-7	SS-5	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 597013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-8	SS-6	Total/NA	Solid	3550C	
480-189621-9	SS-7	Total/NA	Solid	3550C	
480-189621-10	SS-8	Total/NA	Solid	3550C	
480-189621-11	SS-9	Total/NA	Solid	3550C	
480-189621-12	SS-10	Total/NA	Solid	3550C	
480-189621-13	SS-11	Total/NA	Solid	3550C	
480-189621-14	SS-12	Total/NA	Solid	3550C	
480-189621-15	SS-13	Total/NA	Solid	3550C	
480-189621-16	SS-14	Total/NA	Solid	3550C	
480-189621-17	SS-15	Total/NA	Solid	3550C	
480-189621-18	SS-16	Total/NA	Solid	3550C	
480-189621-19	SS-17	Total/NA	Solid	3550C	
480-189621-20	SS-18	Total/NA	Solid	3550C	
MB 480-597013/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-597013/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	3550C	
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	3550C	

Analysis Batch: 597248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	8270D	597013
480-189621-2	TP-19 1-3ft	Total/NA	Solid	8270D	597013
480-189621-3	TP-28 4-5ft	Total/NA	Solid	8270D	597013
480-189621-4	TP-32 0-6in	Total/NA	Solid	8270D	597013
480-189621-5	BD-1	Total/NA	Solid	8270D	597013
480-189621-6	BD-2	Total/NA	Solid	8270D	597013
480-189621-7	SS-5	Total/NA	Solid	8270D	597013
480-189621-8	SS-6	Total/NA	Solid	8270D	597013
480-189621-9	SS-7	Total/NA	Solid	8270D	597013
480-189621-10	SS-8	Total/NA	Solid	8270D	597013
480-189621-11	SS-9	Total/NA	Solid	8270D	597013
480-189621-12	SS-10	Total/NA	Solid	8270D	597013
480-189621-13	SS-11	Total/NA	Solid	8270D	597013
480-189621-14	SS-12	Total/NA	Solid	8270D	597013
480-189621-15	SS-13	Total/NA	Solid	8270D	597013
480-189621-16	SS-14	Total/NA	Solid	8270D	597013
480-189621-17	SS-15	Total/NA	Solid	8270D	597013
480-189621-18	SS-16	Total/NA	Solid	8270D	597013
480-189621-19	SS-17	Total/NA	Solid	8270D	597013
480-189621-20	SS-18	Total/NA	Solid	8270D	597013
MB 480-597013/1-A	Method Blank	Total/NA	Solid	8270D	597013
LCS 480-597013/2-A	Lab Control Sample	Total/NA	Solid	8270D	597013
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	8270D	597013
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	8270D	597013

GC Semi VOA

Prep Batch: 596688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	3550C	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 596688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-3	TP-28 4-5ft	Total/NA	Solid	3550C	
480-189621-4	TP-32 0-6in	Total/NA	Solid	3550C	
480-189621-5	BD-1	Total/NA	Solid	3550C	
480-189621-6	BD-2	Total/NA	Solid	3550C	
480-189621-7	SS-5	Total/NA	Solid	3550C	
480-189621-8	SS-6	Total/NA	Solid	3550C	
480-189621-9	SS-7	Total/NA	Solid	3550C	
480-189621-10	SS-8	Total/NA	Solid	3550C	
480-189621-11	SS-9	Total/NA	Solid	3550C	
480-189621-14	SS-12	Total/NA	Solid	3550C	
480-189621-15	SS-13	Total/NA	Solid	3550C	
480-189621-16	SS-14	Total/NA	Solid	3550C	
480-189621-17	SS-15	Total/NA	Solid	3550C	
480-189621-20	SS-18	Total/NA	Solid	3550C	
480-189621-21	SS-19	Total/NA	Solid	3550C	
480-189621-22	SS-20	Total/NA	Solid	3550C	
MB 480-596688/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596688/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	3550C	
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	3550C	

Analysis Batch: 596747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	8082A	596688
480-189621-2	TP-19 1-3ft	Total/NA	Solid	8082A	596688
480-189621-3	TP-28 4-5ft	Total/NA	Solid	8082A	596688
480-189621-4	TP-32 0-6in	Total/NA	Solid	8082A	596688
480-189621-5	BD-1	Total/NA	Solid	8082A	596688
480-189621-6	BD-2	Total/NA	Solid	8082A	596688
480-189621-7	SS-5	Total/NA	Solid	8082A	596688
480-189621-8	SS-6	Total/NA	Solid	8082A	596688
480-189621-9	SS-7	Total/NA	Solid	8082A	596688
480-189621-10	SS-8	Total/NA	Solid	8082A	596688
480-189621-11	SS-9	Total/NA	Solid	8082A	596688
480-189621-14	SS-12	Total/NA	Solid	8082A	596688
480-189621-15	SS-13	Total/NA	Solid	8082A	596688
480-189621-16	SS-14	Total/NA	Solid	8082A	596688
480-189621-17	SS-15	Total/NA	Solid	8082A	596688
480-189621-20	SS-18	Total/NA	Solid	8082A	596688
480-189621-21	SS-19	Total/NA	Solid	8082A	596688
480-189621-22	SS-20	Total/NA	Solid	8082A	596688
MB 480-596688/1-A	Method Blank	Total/NA	Solid	8082A	596688
LCS 480-596688/2-A	Lab Control Sample	Total/NA	Solid	8082A	596688
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	8082A	596688
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	8082A	596688

Prep Batch: 597124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	8151A	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	8151A	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 597124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-4	TP-32 0-6in	Total/NA	Solid	8151A	
480-189621-5	BD-1	Total/NA	Solid	8151A	
480-189621-6	BD-2	Total/NA	Solid	8151A	
480-189621-7	SS-5	Total/NA	Solid	8151A	
480-189621-8	SS-6	Total/NA	Solid	8151A	
480-189621-9	SS-7	Total/NA	Solid	8151A	
480-189621-10	SS-8	Total/NA	Solid	8151A	
480-189621-11	SS-9	Total/NA	Solid	8151A	
480-189621-14	SS-12	Total/NA	Solid	8151A	
480-189621-15	SS-13	Total/NA	Solid	8151A	
480-189621-16	SS-14	Total/NA	Solid	8151A	
480-189621-17	SS-15	Total/NA	Solid	8151A	
480-189621-20	SS-18	Total/NA	Solid	8151A	
480-189621-21	SS-19	Total/NA	Solid	8151A	
480-189621-22	SS-20	Total/NA	Solid	8151A	
MB 480-597124/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-597124/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 597134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	3550C	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	3550C	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	3550C	
480-189621-4	TP-32 0-6in	Total/NA	Solid	3550C	
480-189621-5	BD-1	Total/NA	Solid	3550C	
480-189621-6	BD-2	Total/NA	Solid	3550C	
480-189621-7	SS-5	Total/NA	Solid	3550C	
480-189621-8	SS-6	Total/NA	Solid	3550C	
480-189621-9	SS-7	Total/NA	Solid	3550C	
480-189621-10	SS-8	Total/NA	Solid	3550C	
480-189621-11	SS-9	Total/NA	Solid	3550C	
480-189621-14	SS-12	Total/NA	Solid	3550C	
480-189621-15	SS-13	Total/NA	Solid	3550C	
480-189621-16	SS-14	Total/NA	Solid	3550C	
480-189621-17	SS-15	Total/NA	Solid	3550C	
480-189621-20	SS-18	Total/NA	Solid	3550C	
480-189621-21	SS-19	Total/NA	Solid	3550C	
480-189621-22	SS-20	Total/NA	Solid	3550C	
MB 480-597134/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-597134/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	3550C	
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	3550C	

Analysis Batch: 597313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	8081B	597134
480-189621-2	TP-19 1-3ft	Total/NA	Solid	8081B	597134
480-189621-3	TP-28 4-5ft	Total/NA	Solid	8081B	597134
480-189621-4	TP-32 0-6in	Total/NA	Solid	8081B	597134
480-189621-5	BD-1	Total/NA	Solid	8081B	597134
480-189621-6	BD-2	Total/NA	Solid	8081B	597134

GC Semi VOA (Continued)

Analysis Batch: 597313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-7	SS-5	Total/NA	Solid	8081B	597134
480-189621-8	SS-6	Total/NA	Solid	8081B	597134
480-189621-9	SS-7	Total/NA	Solid	8081B	597134
480-189621-10	SS-8	Total/NA	Solid	8081B	597134
480-189621-11	SS-9	Total/NA	Solid	8081B	597134
480-189621-14	SS-12	Total/NA	Solid	8081B	597134
480-189621-15	SS-13	Total/NA	Solid	8081B	597134
480-189621-16	SS-14	Total/NA	Solid	8081B	597134
480-189621-17	SS-15	Total/NA	Solid	8081B	597134
480-189621-20	SS-18	Total/NA	Solid	8081B	597134
480-189621-21	SS-19	Total/NA	Solid	8081B	597134
480-189621-22	SS-20	Total/NA	Solid	8081B	597134
MB 480-597134/1-A	Method Blank	Total/NA	Solid	8081B	597134
LCS 480-597134/2-A	Lab Control Sample	Total/NA	Solid	8081B	597134
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	8081B	597134
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	8081B	597134

Analysis Batch: 597539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	8151A	597124
480-189621-2	TP-19 1-3ft	Total/NA	Solid	8151A	597124
480-189621-3	TP-28 4-5ft	Total/NA	Solid	8151A	597124
480-189621-4	TP-32 0-6in	Total/NA	Solid	8151A	597124
480-189621-5	BD-1	Total/NA	Solid	8151A	597124
480-189621-6	BD-2	Total/NA	Solid	8151A	597124
480-189621-7	SS-5	Total/NA	Solid	8151A	597124
480-189621-8	SS-6	Total/NA	Solid	8151A	597124
480-189621-9	SS-7	Total/NA	Solid	8151A	597124
480-189621-10	SS-8	Total/NA	Solid	8151A	597124
480-189621-11	SS-9	Total/NA	Solid	8151A	597124
480-189621-14	SS-12	Total/NA	Solid	8151A	597124
480-189621-15	SS-13	Total/NA	Solid	8151A	597124
480-189621-16	SS-14	Total/NA	Solid	8151A	597124
480-189621-17	SS-15	Total/NA	Solid	8151A	597124
480-189621-20	SS-18	Total/NA	Solid	8151A	597124
480-189621-21	SS-19	Total/NA	Solid	8151A	597124
480-189621-22	SS-20	Total/NA	Solid	8151A	597124
MB 480-597124/1-A	Method Blank	Total/NA	Solid	8151A	597124
LCS 480-597124/2-A	Lab Control Sample	Total/NA	Solid	8151A	597124

LCMS

Prep Batch: 171603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	SHAKE	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	SHAKE	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	SHAKE	
480-189621-4	TP-32 0-6in	Total/NA	Solid	SHAKE	
480-189621-5	BD-1	Total/NA	Solid	SHAKE	
480-189621-6	BD-2	Total/NA	Solid	SHAKE	
480-189621-7	SS-5	Total/NA	Solid	SHAKE	

LCMS (Continued)

Prep Batch: 171603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-8	SS-6	Total/NA	Solid	SHAKE	
480-189621-9	SS-7	Total/NA	Solid	SHAKE	
480-189621-10	SS-8	Total/NA	Solid	SHAKE	
480-189621-11	SS-9	Total/NA	Solid	SHAKE	
480-189621-14	SS-12	Total/NA	Solid	SHAKE	
480-189621-15	SS-13	Total/NA	Solid	SHAKE	
480-189621-16	SS-14	Total/NA	Solid	SHAKE	
480-189621-17	SS-15	Total/NA	Solid	SHAKE	
480-189621-20	SS-18	Total/NA	Solid	SHAKE	
480-189621-21	SS-19	Total/NA	Solid	SHAKE	
480-189621-22	SS-20	Total/NA	Solid	SHAKE	
MB 200-171603/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-171603/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-189621-20 MS	SS-18	Total/NA	Solid	SHAKE	
480-189621-20 MSD	SS-18	Total/NA	Solid	SHAKE	

Analysis Batch: 171658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	537 (modified)	171603
480-189621-2	TP-19 1-3ft	Total/NA	Solid	537 (modified)	171603
480-189621-3	TP-28 4-5ft	Total/NA	Solid	537 (modified)	171603
480-189621-4	TP-32 0-6in	Total/NA	Solid	537 (modified)	171603
480-189621-5	BD-1	Total/NA	Solid	537 (modified)	171603
480-189621-6	BD-2	Total/NA	Solid	537 (modified)	171603
480-189621-7	SS-5	Total/NA	Solid	537 (modified)	171603
480-189621-8	SS-6	Total/NA	Solid	537 (modified)	171603
480-189621-9	SS-7	Total/NA	Solid	537 (modified)	171603
480-189621-10	SS-8	Total/NA	Solid	537 (modified)	171603
480-189621-11	SS-9	Total/NA	Solid	537 (modified)	171603
480-189621-14	SS-12	Total/NA	Solid	537 (modified)	171603
480-189621-15	SS-13	Total/NA	Solid	537 (modified)	171603
480-189621-16	SS-14	Total/NA	Solid	537 (modified)	171603
480-189621-17	SS-15	Total/NA	Solid	537 (modified)	171603
480-189621-20	SS-18	Total/NA	Solid	537 (modified)	171603
480-189621-21	SS-19	Total/NA	Solid	537 (modified)	171603
480-189621-22	SS-20	Total/NA	Solid	537 (modified)	171603
MB 200-171603/1-A	Method Blank	Total/NA	Solid	537 (modified)	171603
LCS 200-171603/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	171603
480-189621-20 MS	SS-18	Total/NA	Solid	537 (modified)	171603
480-189621-20 MSD	SS-18	Total/NA	Solid	537 (modified)	171603

Metals

Prep Batch: 596673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-21	SS-19	Total/NA	Solid	3050B	
480-189621-22	SS-20	Total/NA	Solid	3050B	
MB 480-596673/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-596673/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals

Prep Batch: 596868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	3050B	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	3050B	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	3050B	
480-189621-4	TP-32 0-6in	Total/NA	Solid	3050B	
480-189621-5	BD-1	Total/NA	Solid	3050B	
480-189621-6	BD-2	Total/NA	Solid	3050B	
480-189621-7	SS-5	Total/NA	Solid	3050B	
480-189621-8	SS-6	Total/NA	Solid	3050B	
480-189621-9	SS-7	Total/NA	Solid	3050B	
480-189621-10	SS-8	Total/NA	Solid	3050B	
480-189621-11	SS-9	Total/NA	Solid	3050B	
480-189621-12	SS-10	Total/NA	Solid	3050B	
480-189621-13	SS-11	Total/NA	Solid	3050B	
480-189621-14	SS-12	Total/NA	Solid	3050B	
480-189621-15	SS-13	Total/NA	Solid	3050B	
480-189621-16	SS-14	Total/NA	Solid	3050B	
480-189621-17	SS-15	Total/NA	Solid	3050B	
480-189621-18	SS-16	Total/NA	Solid	3050B	
480-189621-19	SS-17	Total/NA	Solid	3050B	
480-189621-20	SS-18	Total/NA	Solid	3050B	
MB 480-596868/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-596868/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	3050B	
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	3050B	

Prep Batch: 596899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	7471B	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	7471B	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	7471B	
480-189621-4	TP-32 0-6in	Total/NA	Solid	7471B	
480-189621-5	BD-1	Total/NA	Solid	7471B	
480-189621-6	BD-2	Total/NA	Solid	7471B	
480-189621-7	SS-5	Total/NA	Solid	7471B	
480-189621-8	SS-6	Total/NA	Solid	7471B	
480-189621-9	SS-7	Total/NA	Solid	7471B	
480-189621-10	SS-8	Total/NA	Solid	7471B	
480-189621-11	SS-9	Total/NA	Solid	7471B	
480-189621-12	SS-10	Total/NA	Solid	7471B	
480-189621-13	SS-11	Total/NA	Solid	7471B	
480-189621-14	SS-12	Total/NA	Solid	7471B	
480-189621-15	SS-13	Total/NA	Solid	7471B	
480-189621-16	SS-14	Total/NA	Solid	7471B	
480-189621-17	SS-15	Total/NA	Solid	7471B	
480-189621-18	SS-16	Total/NA	Solid	7471B	
480-189621-19	SS-17	Total/NA	Solid	7471B	
480-189621-20	SS-18	Total/NA	Solid	7471B	
MB 480-596899/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-596899/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	7471B	
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	7471B	

Metals

Analysis Batch: 596958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-21	SS-19	Total/NA	Solid	6010C	596673
480-189621-22	SS-20	Total/NA	Solid	6010C	596673
MB 480-596673/1-A	Method Blank	Total/NA	Solid	6010C	596673
LCSSRM 480-596673/2-A	Lab Control Sample	Total/NA	Solid	6010C	596673

Prep Batch: 597079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-21	SS-19	Total/NA	Solid	7471B	
480-189621-22	SS-20	Total/NA	Solid	7471B	
MB 480-597079/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-597079/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 597112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	7471B	596899
480-189621-2	TP-19 1-3ft	Total/NA	Solid	7471B	596899
480-189621-3	TP-28 4-5ft	Total/NA	Solid	7471B	596899
480-189621-4	TP-32 0-6in	Total/NA	Solid	7471B	596899
480-189621-5	BD-1	Total/NA	Solid	7471B	596899
480-189621-6	BD-2	Total/NA	Solid	7471B	596899
480-189621-7	SS-5	Total/NA	Solid	7471B	596899
480-189621-8	SS-6	Total/NA	Solid	7471B	596899
480-189621-9	SS-7	Total/NA	Solid	7471B	596899
480-189621-10	SS-8	Total/NA	Solid	7471B	596899
480-189621-11	SS-9	Total/NA	Solid	7471B	596899
480-189621-12	SS-10	Total/NA	Solid	7471B	596899
480-189621-13	SS-11	Total/NA	Solid	7471B	596899
480-189621-14	SS-12	Total/NA	Solid	7471B	596899
480-189621-15	SS-13	Total/NA	Solid	7471B	596899
480-189621-16	SS-14	Total/NA	Solid	7471B	596899
480-189621-17	SS-15	Total/NA	Solid	7471B	596899
480-189621-18	SS-16	Total/NA	Solid	7471B	596899
480-189621-19	SS-17	Total/NA	Solid	7471B	596899
480-189621-20	SS-18	Total/NA	Solid	7471B	596899
480-189621-21	SS-19	Total/NA	Solid	7471B	597079
480-189621-22	SS-20	Total/NA	Solid	7471B	597079
MB 480-596899/1-A	Method Blank	Total/NA	Solid	7471B	596899
MB 480-597079/1-A	Method Blank	Total/NA	Solid	7471B	597079
LCSSRM 480-596899/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	596899
LCSSRM 480-597079/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	597079
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	7471B	596899
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	7471B	596899

Analysis Batch: 597174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	6010C	596868
480-189621-2	TP-19 1-3ft	Total/NA	Solid	6010C	596868
480-189621-3	TP-28 4-5ft	Total/NA	Solid	6010C	596868
480-189621-4	TP-32 0-6in	Total/NA	Solid	6010C	596868
480-189621-5	BD-1	Total/NA	Solid	6010C	596868
480-189621-6	BD-2	Total/NA	Solid	6010C	596868

Metals (Continued)

Analysis Batch: 597174 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-7	SS-5	Total/NA	Solid	6010C	596868
480-189621-8	SS-6	Total/NA	Solid	6010C	596868
480-189621-9	SS-7	Total/NA	Solid	6010C	596868
480-189621-10	SS-8	Total/NA	Solid	6010C	596868
480-189621-11	SS-9	Total/NA	Solid	6010C	596868
480-189621-12	SS-10	Total/NA	Solid	6010C	596868
480-189621-13	SS-11	Total/NA	Solid	6010C	596868
480-189621-14	SS-12	Total/NA	Solid	6010C	596868
480-189621-15	SS-13	Total/NA	Solid	6010C	596868
480-189621-16	SS-14	Total/NA	Solid	6010C	596868
480-189621-17	SS-15	Total/NA	Solid	6010C	596868
480-189621-18	SS-16	Total/NA	Solid	6010C	596868
480-189621-19	SS-17	Total/NA	Solid	6010C	596868
480-189621-20	SS-18	Total/NA	Solid	6010C	596868
MB 480-596868/1-A	Method Blank	Total/NA	Solid	6010C	596868
LCSSRM 480-596868/2-A	Lab Control Sample	Total/NA	Solid	6010C	596868
480-189621-1 MS	TP-12 6in-2ft	Total/NA	Solid	6010C	596868
480-189621-1 MSD	TP-12 6in-2ft	Total/NA	Solid	6010C	596868

General Chemistry

Analysis Batch: 596712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189621-1	TP-12 6in-2ft	Total/NA	Solid	Moisture	
480-189621-2	TP-19 1-3ft	Total/NA	Solid	Moisture	
480-189621-3	TP-28 4-5ft	Total/NA	Solid	Moisture	
480-189621-4	TP-32 0-6in	Total/NA	Solid	Moisture	
480-189621-5	BD-1	Total/NA	Solid	Moisture	
480-189621-6	BD-2	Total/NA	Solid	Moisture	
480-189621-7	SS-5	Total/NA	Solid	Moisture	
480-189621-8	SS-6	Total/NA	Solid	Moisture	
480-189621-9	SS-7	Total/NA	Solid	Moisture	
480-189621-10	SS-8	Total/NA	Solid	Moisture	
480-189621-11	SS-9	Total/NA	Solid	Moisture	
480-189621-12	SS-10	Total/NA	Solid	Moisture	
480-189621-13	SS-11	Total/NA	Solid	Moisture	
480-189621-14	SS-12	Total/NA	Solid	Moisture	
480-189621-15	SS-13	Total/NA	Solid	Moisture	
480-189621-16	SS-14	Total/NA	Solid	Moisture	
480-189621-17	SS-15	Total/NA	Solid	Moisture	
480-189621-18	SS-16	Total/NA	Solid	Moisture	
480-189621-19	SS-17	Total/NA	Solid	Moisture	
480-189621-20	SS-18	Total/NA	Solid	Moisture	
480-189621-21	SS-19	Total/NA	Solid	Moisture	
480-189621-22	SS-20	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-12 6in-2ft
Date Collected: 09/14/21 09:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: TP-12 6in-2ft
Date Collected: 09/14/21 09:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-1
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596511	09/15/21 18:03	CDC	TAL BUF
Total/NA	Analysis	8260C		1	596740	09/17/21 00:40	WJD	TAL BUF
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 01:51	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 10:27	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 13:25	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 16:36	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 06:06	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/20/21 23:47	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:43	BMB	TAL BUF

Client Sample ID: TP-19 1-3ft
Date Collected: 09/14/21 11:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: TP-19 1-3ft
Date Collected: 09/14/21 11:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-2
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596511	09/15/21 18:03	CDC	TAL BUF
Total/NA	Analysis	8260C		1	596740	09/17/21 01:04	WJD	TAL BUF
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 02:15	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 10:47	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 13:37	W1T	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: TP-19 1-3ft

Lab Sample ID: 480-189621-2
Date Collected: 09/14/21 11:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 17:06	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 06:14	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:16	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:48	BMB	TAL BUF

Client Sample ID: TP-28 4-5ft

Lab Sample ID: 480-189621-3
Date Collected: 09/14/21 10:00
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: TP-28 4-5ft

Lab Sample ID: 480-189621-3
Date Collected: 09/14/21 10:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596511	09/15/21 18:03	CDC	TAL BUF
Total/NA	Analysis	8260C		1	596740	09/17/21 01:27	WJD	TAL BUF
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 02:39	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 11:06	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 13:50	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 17:36	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 06:22	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:20	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:49	BMB	TAL BUF

Client Sample ID: TP-32 0-6in

Lab Sample ID: 480-189621-4
Date Collected: 09/14/21 12:30
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: TP-32 0-6in

Lab Sample ID: 480-189621-4

Date Collected: 09/14/21 12:30
Date Received: 09/14/21 16:50

Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596511	09/15/21 18:03	CDC	TAL BUF
Total/NA	Analysis	8260C		1	596740	09/17/21 01:51	WJD	TAL BUF
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 03:03	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 11:26	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 14:03	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 18:05	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 06:31	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:23	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:51	BMB	TAL BUF

Client Sample ID: BD-1

Lab Sample ID: 480-189621-5

Date Collected: 09/14/21 11:05
Date Received: 09/14/21 16:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: BD-1

Lab Sample ID: 480-189621-5

Date Collected: 09/14/21 11:05
Date Received: 09/14/21 16:50

Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596511	09/15/21 18:03	CDC	TAL BUF
Total/NA	Analysis	8260C		1	596740	09/17/21 02:15	WJD	TAL BUF
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 03:28	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 11:45	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 14:16	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 18:35	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 06:39	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:27	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:52	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: BD-2
Date Collected: 09/14/21 12:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: BD-2
Date Collected: 09/14/21 12:35
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-6
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596511	09/15/21 18:03	CDC	TAL BUF
Total/NA	Analysis	8260C		1	596740	09/17/21 02:38	WJD	TAL BUF
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 03:52	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 12:05	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 14:28	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 19:34	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 06:47	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:31	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:56	BMB	TAL BUF

Client Sample ID: SS-5
Date Collected: 09/14/21 14:40
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-5
Date Collected: 09/14/21 14:40
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-7
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 04:16	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 12:25	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 14:41	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 20:04	MAN	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-5
Date Collected: 09/14/21 14:40
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-7
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 06:56	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:35	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:57	BMB	TAL BUF

Client Sample ID: SS-6
Date Collected: 09/14/21 14:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-6
Date Collected: 09/14/21 14:30
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-8
Matrix: Solid
Percent Solids: 70.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 04:40	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 12:44	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 14:54	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 20:34	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 07:04	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:39	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 15:58	BMB	TAL BUF

Client Sample ID: SS-7
Date Collected: 09/14/21 13:00
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-7

Lab Sample ID: 480-189621-9
Date Collected: 09/14/21 13:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 68.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 05:04	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 13:04	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 15:07	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 21:03	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 07:12	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:53	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:00	BMB	TAL BUF

Client Sample ID: SS-8

Lab Sample ID: 480-189621-10
Date Collected: 09/14/21 13:15
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-8

Lab Sample ID: 480-189621-10
Date Collected: 09/14/21 13:15
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 05:28	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 13:23	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 15:19	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 21:33	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 07:29	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 00:57	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:01	BMB	TAL BUF

Client Sample ID: SS-9
Lab Sample ID: 480-189621-11
Date Collected: 09/14/21 14:00
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-9
Lab Sample ID: 480-189621-11
Date Collected: 09/14/21 14:00
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 05:52	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 13:43	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 15:32	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 22:03	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 07:37	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:01	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:02	BMB	TAL BUF

Client Sample ID: SS-10
Lab Sample ID: 480-189621-12
Date Collected: 09/14/21 14:35
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-10
Lab Sample ID: 480-189621-12
Date Collected: 09/14/21 14:35
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 06:16	JMM	TAL BUF
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:05	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:04	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-11
Date Collected: 09/14/21 13:20
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-11
Date Collected: 09/14/21 13:20
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-13
Matrix: Solid
Percent Solids: 67.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 06:40	JMM	TAL BUF
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:08	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:05	BMB	TAL BUF

Client Sample ID: SS-12
Date Collected: 09/14/21 14:50
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-12
Date Collected: 09/14/21 14:50
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-14
Matrix: Solid
Percent Solids: 68.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 07:05	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 14:03	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 15:45	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 22:32	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 07:45	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:12	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:06	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Client Sample ID: SS-13
Date Collected: 09/14/21 14:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-13
Date Collected: 09/14/21 14:05
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-15
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 07:29	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 14:22	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 15:58	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 23:02	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 07:54	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:16	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:08	BMB	TAL BUF

Client Sample ID: SS-14
Date Collected: 09/14/21 13:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-14
Date Collected: 09/14/21 13:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-16
Matrix: Solid
Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		5	597248	09/22/21 07:53	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 14:42	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 16:10	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 23:32	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 08:02	BWC	TAL BUR

Client Sample ID: SS-14
Lab Sample ID: 480-189621-16
Date Collected: 09/14/21 13:10
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:20	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:11	BMB	TAL BUF

Client Sample ID: SS-15
Lab Sample ID: 480-189621-17
Date Collected: 09/14/21 13:45
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-15
Lab Sample ID: 480-189621-17
Date Collected: 09/14/21 13:45
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		5	597248	09/22/21 08:17	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 15:01	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 14:59	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 16:23	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/24/21 00:02	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 08:10	BWC	TAL BUR
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:23	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:13	BMB	TAL BUF

Client Sample ID: SS-16
Lab Sample ID: 480-189621-18
Date Collected: 09/14/21 14:15
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-16
Lab Sample ID: 480-189621-18
Date Collected: 09/14/21 14:15
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 08:41	JMM	TAL BUF

Client Sample ID: SS-16
Lab Sample ID: 480-189621-18
Date Collected: 09/14/21 14:15
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:38	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:14	BMB	TAL BUF

Client Sample ID: SS-17
Lab Sample ID: 480-189621-19
Date Collected: 09/14/21 13:05
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-17
Lab Sample ID: 480-189621-19
Date Collected: 09/14/21 13:05
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 09:05	JMM	TAL BUF
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:41	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:15	BMB	TAL BUF

Client Sample ID: SS-18
Lab Sample ID: 480-189621-20
Date Collected: 09/14/21 14:45
Matrix: Solid
Date Received: 09/14/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-18
Lab Sample ID: 480-189621-20
Date Collected: 09/14/21 14:45
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597013	09/20/21 07:47	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597248	09/22/21 09:29	JMM	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 15:21	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 15:47	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 17:14	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/24/21 01:01	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 08:19	BWC	TAL BUR

Client Sample ID: SS-18
Date Collected: 09/14/21 14:45
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-20
Matrix: Solid
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			596868	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597174	09/21/21 01:45	LMH	TAL BUF
Total/NA	Prep	7471B			596899	09/20/21 14:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 16:17	BMB	TAL BUF

Client Sample ID: SS-19
Date Collected: 09/14/21 16:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-19
Date Collected: 09/14/21 16:10
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-21
Matrix: Solid
Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			596875	09/17/21 14:13	ADH	TAL BUF
Total/NA	Analysis	8270D		1	596938	09/18/21 15:38	PJQ	TAL BUF
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 16:00	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 15:47	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 17:27	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/24/21 01:30	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 08:44	BWC	TAL BUR
Total/NA	Prep	3050B			596673	09/16/21 16:42	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596958	09/17/21 21:08	LMH	TAL BUF
Total/NA	Prep	7471B			597079	09/20/21 14:40	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 17:14	BMB	TAL BUF

Client Sample ID: SS-20
Date Collected: 09/14/21 13:25
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: SS-20
Date Collected: 09/14/21 13:25
Date Received: 09/14/21 16:50

Lab Sample ID: 480-189621-22
Matrix: Solid
Percent Solids: 70.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			596875	09/17/21 14:13	ADH	TAL BUF
Total/NA	Analysis	8270D		1	596938	09/18/21 16:01	PJQ	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SS-20
Lab Sample ID: 480-189621-22
Date Collected: 09/14/21 13:25
Matrix: Solid
Date Received: 09/14/21 16:50
Percent Solids: 70.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			597134	09/21/21 08:39	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597313	09/22/21 16:20	JLS	TAL BUF
Total/NA	Prep	3550C			596688	09/16/21 15:47	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596747	09/17/21 17:39	W1T	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/24/21 02:00	MAN	TAL BUF
Total/NA	Prep	SHAKE			171603	09/21/21 08:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171658	09/22/21 08:52	BWC	TAL BUR
Total/NA	Prep	3050B			596673	09/16/21 16:42	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596958	09/17/21 21:12	LMH	TAL BUF
Total/NA	Prep	7471B			597079	09/20/21 14:40	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597112	09/20/21 17:15	BMB	TAL BUF

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-22

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189621-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189621-1	TP-12 6in-2ft	Solid	09/14/21 09:30	09/14/21 16:50
480-189621-2	TP-19 1-3ft	Solid	09/14/21 11:00	09/14/21 16:50
480-189621-3	TP-28 4-5ft	Solid	09/14/21 10:00	09/14/21 16:50
480-189621-4	TP-32 0-6in	Solid	09/14/21 12:30	09/14/21 16:50
480-189621-5	BD-1	Solid	09/14/21 11:05	09/14/21 16:50
480-189621-6	BD-2	Solid	09/14/21 12:35	09/14/21 16:50
480-189621-7	SS-5	Solid	09/14/21 14:40	09/14/21 16:50
480-189621-8	SS-6	Solid	09/14/21 14:30	09/14/21 16:50
480-189621-9	SS-7	Solid	09/14/21 13:00	09/14/21 16:50
480-189621-10	SS-8	Solid	09/14/21 13:15	09/14/21 16:50
480-189621-11	SS-9	Solid	09/14/21 14:00	09/14/21 16:50
480-189621-12	SS-10	Solid	09/14/21 14:35	09/14/21 16:50
480-189621-13	SS-11	Solid	09/14/21 13:20	09/14/21 16:50
480-189621-14	SS-12	Solid	09/14/21 14:50	09/14/21 16:50
480-189621-15	SS-13	Solid	09/14/21 14:05	09/14/21 16:50
480-189621-16	SS-14	Solid	09/14/21 13:10	09/14/21 16:50
480-189621-17	SS-15	Solid	09/14/21 13:45	09/14/21 16:50
480-189621-18	SS-16	Solid	09/14/21 14:15	09/14/21 16:50
480-189621-19	SS-17	Solid	09/14/21 13:05	09/14/21 16:50
480-189621-20	SS-18	Solid	09/14/21 14:45	09/14/21 16:50
480-189621-21	SS-19	Solid	09/14/21 16:10	09/14/21 16:50
480-189621-22	SS-20	Solid	09/14/21 13:25	09/14/21 16:50

Chain of Custody Record

544163

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Bryan Maybach	Site Contact: Nicole Sorrell	Date: 9/14/21	COC No:
Company Name: Turnkey Env Restoration	Tel/Email: BMaybach@TurnkeyEnv.com	Lab Contact: Brian Fleck	Carrier:	1 of 1 COCs
Address: 2558 Hamburg Tpke	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-713-3937	TAT if different from Below Standard			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: 3077 Union Rd				Job / SDG No.:
Site: 3077 Union Rd				
PO # TO 105-017-010				Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOC's	TCL SVOC's	TAL Metals	PCB's	Pesticides	Herbicides	1,4 Dioxane	PFAS
TP-12 6"-2Ft	9/14/21	9:30	G	Soil	4			X	X	X	X	X	X	X	X
TP-19 1-3Ft		11:00						X	X	X	X	X	X	X	X
TP-28 4-5Ft		10:00						X	X	X	X	X	X	✓	X
TP-32 0-6"		12:30						X	X	X	X	X	X	X	X
BD-1		11:05						X	X	X	X	X	X	X	X
BD-2		12:35						X	X	X	X	X	X	X	X
SS-5		14:40							✓	X	X	X	X	X	X
SS-6		14:30							X	X	X	X	X	X	X
SS-7		13:00							X	X	X	X	X	X	X
SS-8		13:15							X	X	X	X	X	X	X
SS-9		14:00							X	X	X	X	X	X	X
SS-10		14:35							X	X					
								1	1	1	1	1	2	2	1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 4

encores

480-189621 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:
Cat B, NYS DEC EQUIS

3.7 #1 ICE

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	TURNKEY	9/14/21 1530	Received by:	EFBuf	9/14/21 1650
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record

544164

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: Tonkel Env Restoration	Tel/Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 255 Rhode Island Place				Sampler:
City/State/Zip: Buffalo, NY				For Lab Use Only:
Phone: 716-713-3937				Walk-in Client:
Fax:				Lab Sampling:
Project Name: 3672 Union Rd				Job / SDG No.:
Site:				
PO# T0105-017-010				

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below Standard

☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOC's	TCL SVOC's	TAL Metals	PCB's	Pest	Herb	1,4-Dioxane	PFAS	Sample Specific Notes:
SS-11	9/14/21	13:20	G	Soil	3			X	X							
SS-12		14:50						X	X	X	X	X	X	X	X	
SS-13		14:05						X	X	X	X	X	X	X	X	
SS-14		13:10						X	X	X	X	X	X	X	X	
SS-15		13:45						X	X	X	X	X	X	X	X	
SS-16		14:15						X	X							
SS-17		13:05						X	X							
SS-18		14:45						X	X	X	X	X	X	X	X	
SS-19		14:10						X	X	X	X	X	X	X	X	
SS-20		13:25						X	X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Oth

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Cert B, MS/MSD ellers

4.6 #1 ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: RMTK	Date/Time: 9/14/21 1655	Received by:	Company: EF Bur	Date/Time: 9/14/21
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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

Chain of Custody Record

480-189621 Chain of Custody

fins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	06.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin: New York
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Page: Page 1 of 2
Address: 530 Community Drive, Suite 11,	Due Date Requested: 9/27/2021		Job #: 480-189621-1
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: 3077 Union Rd Site - Orchard Park, NY	Project #: 48024263		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TP-12 6in-2ft (480-189621-1)	9/14/21	09:30 Eastern		Solid			X	1	
TP-19 1-3ft (480-189621-2)	9/14/21	11:00 Eastern		Solid			X	1	
TP-28 4-5ft (480-189621-3)	9/14/21	10:00 Eastern		Solid			X	1	
TP-32 0-6in (480-189621-4)	9/14/21	12:30 Eastern		Solid			X	1	
BD-1 (480-189621-5)	9/14/21	11:05 Eastern		Solid			X	1	
BD-2 (480-189621-6)	9/14/21	12:35 Eastern		Solid			X	1	
SS-5 (480-189621-7)	9/14/21	14:40 Eastern		Solid			X	1	
SS-6 (480-189621-8)	9/14/21	14:30 Eastern		Solid			X	1	
SS-7 (480-189621-9)	9/14/21	13:00 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 9/16/21 1700	Company TA	Received by: [signature] Date/Time: 9/20/21 9:15 Company TA
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks: 3°

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-66506.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-189621-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 9/27/2021			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			
Email:	WO #:			
Project Name: 3077 Union Rd Site - Orchard Park, NY	Project #: 48024263			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SS-8 (480-189621-10)	9/14/21	13:15 Eastern		Solid			X	1	
SS-9 (480-189621-11)	9/14/21	14:00 Eastern		Solid			X	1	
SS-12 (480-189621-14)	9/14/21	14:50 Eastern		Solid			X	1	
SS-13 (480-189621-15)	9/14/21	14:05 Eastern		Solid			X	1	
SS-14 (480-189621-16)	9/14/21	13:10 Eastern		Solid			X	1	
SS-15 (480-189621-17)	9/14/21	13:45 Eastern		Solid			X	1	
SS-18 (480-189621-20)	9/14/21	14:45 Eastern		Solid			X	1	
SS-19 (480-189621-21)	9/14/21	16:10 Eastern		Solid			X	1	
SS-20 (480-189621-22)	9/14/21	13:25 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

Relinquished by: Pgl	Date/Time:	Company	Received by:	Date/Time: 9/20/21 9:18	Company TAL BUF
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021



ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 16SEP21
ACTWGT: 55.75 LB
CAD: 846654/CAFE3506
DIMS: 26x15x14 IN

BILL SENDER

TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH BURLINGTON

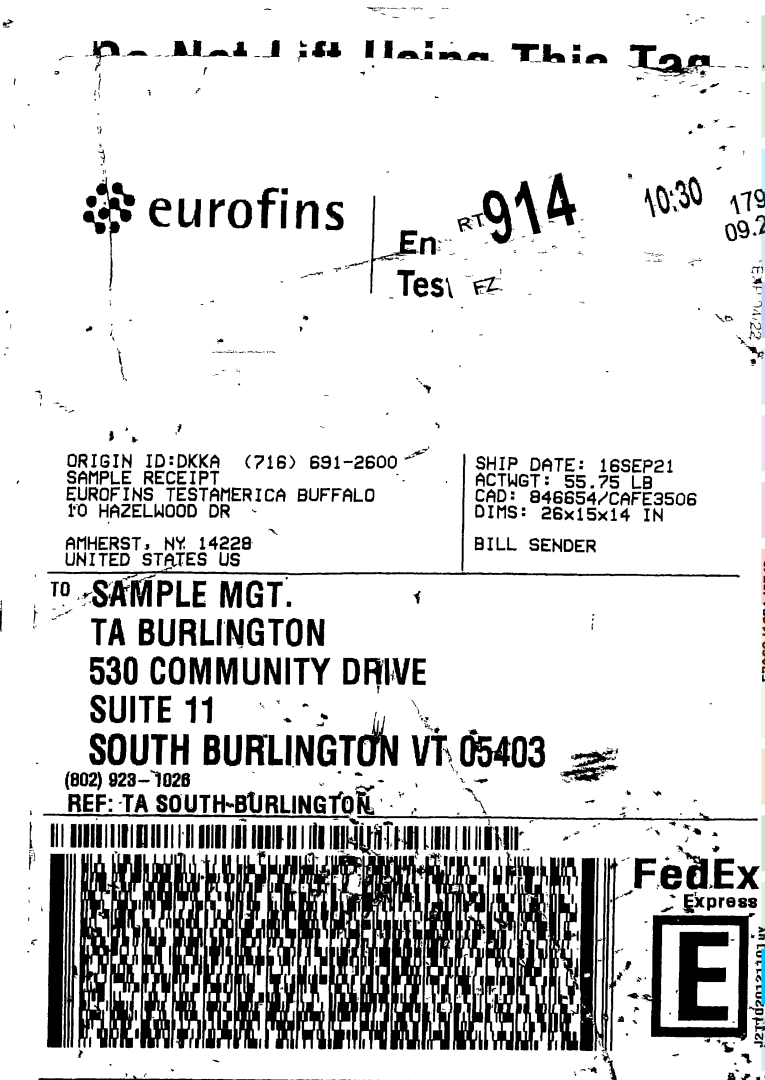
FedEx Express

1 of 2
TRK# 0201 1888 3865 1780
MASTER

FRI - 17 SEP 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV



ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 16SEP21
ACTWGT: 55.75 LB
CAD: 846654/CAFE3506
DIMS: 26x15x14 IN

BILL SENDER

TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH BURLINGTON

FedEx Express

2 of 2
MPS# 0263 1888 3865 1791
Mstr# 1888 3865 1780

FRI - 17 SEP 10:30A
PRIORITY OVERNIGHT

0201

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-189621-1

Login Number: 189621

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-189621-1

Login Number: 189621
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington
List Creation: 09/20/21 02:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1512646, 648
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	14.0ºC, 9.5ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-189652-1
Client Project/Site: 3077 Union Rd Site - Orchard Park, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
9/27/2021 2:54:15 PM
Rebecca Jones, Project Management Assistant I
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Designee for

Brian Fischer, Manager of Project Management
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LINKS

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

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

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

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-189652-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-189652-1

Comments
No additional comments.

Receipt
The samples were received on 9/15/2021 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

Receipt Exceptions

The following sample(s) was received at the laboratory outside the required temperature criteria: 14.0ºC, 9.5ºC.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-596720 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCVIS were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TP-3 (480-189652-1), TP-17 (480-189652-2), TP-8 (480-189652-3) and TP-1 (480-189652-4).

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

GC/MS Semi VOA
Method 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 480-596941 was outside criteria for the following analyte(s): Bis(2-chloroethoxy)methane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-596941 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane]. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-596941 recovered above the upper control limit for 4-Bromophenyl phenyl ether, 4-Chlorophenyl phenyl ether, 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TP-3 (480-189652-1).

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TP-3 (480-189652-1[MSD]). These results have been reported and qualified.

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

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

Metals
Method 6010C: The Serial Dilution (480-189652-C-1-A SD ^5) in batch 480-597173 , exhibited results outside the quality control limits for Total Barium, Chromium, and Magnesium. However, the Post Digestion Spike was compliant so no corrective action was necessary.

Method 6010C: The Serial Dilution and Post Spike (480-189652-C-1-A PDS) and (480-189652-C-1-A SD ^5) exceeded the quality control limits for Total Aluminum, Calcium, Iron, Manganese, and Zinc. Sample matrix is suspected, therefore, no corrective action was necessary.

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

Job ID: 480-189652-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

LCMS

Method 537 (modified): The method blank for preparation batch 200-171565 and analytical batch 200-171657 contained Perfluorobutanesulfonic acid (PFBS), Perfluorooctanesulfonic acid (PFOS) and N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with samples TP-3 (480-189652-1), TP-8 (480-189652-3) and TP-1 (480-189652-4) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

Method 537 (modified): The matrix spike/matrix spike duplicate (MS/MSD) recoveries for preparation batch 200-171565 and analytical batch 200-171657 were outside control limits for Perfluorotetradecanoic acid (PFTeA). Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620B OR 3620C, to reduce matrix interferences: TP-3 (480-189652-1), TP-3 (480-189652-1[MS]), TP-3 (480-189652-1[MSD]) and TP-1 (480-189652-4).

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-3
Lab Sample ID: 480-189652-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
beta-BHC	0.51	J	1.9	0.33	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	0.68	J B	1.9	0.46	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.020	J I B	0.22	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	11400		10.9	4.8	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.91	J F1	16.4	0.44	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.6		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	43.7	F1	0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.59		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	18300	F2	54.7	3.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.6		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.1		0.55	0.055	mg/Kg	1	☼	6010C	Total/NA
Copper	21.0		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	17900		10.9	3.8	mg/Kg	1	☼	6010C	Total/NA
Lead	12.2		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5540	F1	21.9	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	164	F1	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	28.6		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	1880	F1	32.8	21.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.9	J	4.4	0.44	mg/Kg	1	☼	6010C	Total/NA
Sodium	139	J	153	14.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.4	F1	0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	94.6	F1	2.2	0.70	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.032		0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-17
Lab Sample ID: 480-189652-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endrin ketone	0.49	J B	1.9	0.47	ug/Kg	1	☼	8081B	Total/NA
Perfluorohexanoic acid (PFHxA)	0.028	J	0.23	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.017	J	0.23	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.026	J	0.23	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.020	J	0.23	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.021	J B	0.23	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.029	J	0.23	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.019	J	0.23	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.022	J B	0.23	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.018	J	0.23	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.026	J	0.23	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.079	J B	2.3	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.096	J	2.3	0.053	ug/Kg	1	☼	537 (modified)	Total/NA
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.027	J	2.3	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19900		12.1	5.3	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.9	J	18.2	0.48	mg/Kg	1	☼	6010C	Total/NA
Arsenic	10.8		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	112		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.4		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	2.0		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: TP-17 (Continued)
Lab Sample ID: 480-189652-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	3780		60.6	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	25.9		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	83.4		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	44.5		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	39600		12.1	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	62.4		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3590		24.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	3670		0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	71.0		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	2440		36.4	24.2	mg/Kg	1	☼	6010C	Total/NA
Selenium	4.5	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Sodium	64.0	J	170	15.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	41.2		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	104		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.052		0.027	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-8
Lab Sample ID: 480-189652-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endrin ketone	0.57	J B	2.1	0.53	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.23	J	0.64	0.21	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.055	J	0.26	0.050	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.077	J	0.26	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.053	J	0.26	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.17	J	0.26	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.048	J	0.26	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.018	J	0.26	0.015	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.031	J B	0.26	0.012	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.033	J	0.26	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.020	J I	0.26	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.17	J I B	0.26	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19400		13.6	6.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.5	J	20.4	0.54	mg/Kg	1	☼	6010C	Total/NA
Arsenic	10.5		2.7	0.54	mg/Kg	1	☼	6010C	Total/NA
Barium	61.6		0.68	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.98		0.27	0.038	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.33		0.27	0.041	mg/Kg	1	☼	6010C	Total/NA
Calcium	1570		67.9	4.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	26.0		0.68	0.27	mg/Kg	1	☼	6010C	Total/NA
Cobalt	16.0		0.68	0.068	mg/Kg	1	☼	6010C	Total/NA
Copper	22.5		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Iron	30900		13.6	4.8	mg/Kg	1	☼	6010C	Total/NA
Lead	23.9		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3460		27.2	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	544		0.27	0.043	mg/Kg	1	☼	6010C	Total/NA
Nickel	31.9		6.8	0.31	mg/Kg	1	☼	6010C	Total/NA
Potassium	1950		40.7	27.2	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.8	J	5.4	0.54	mg/Kg	1	☼	6010C	Total/NA
Sodium	71.4	J B	190	17.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	39.2		0.68	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	109		2.7	0.87	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-8 (Continued)
Lab Sample ID: 480-189652-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.046		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-1
Lab Sample ID: 480-189652-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	220		220	76	ug/Kg	1	☼	8270D	Total/NA
beta-BHC	0.95	J	2.1	0.39	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	0.73	J B	2.1	0.53	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.056	J I B	0.25	0.020	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	11700		13.6	6.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.5	J	20.4	0.54	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.9		2.7	0.54	mg/Kg	1	☼	6010C	Total/NA
Barium	72.4		0.68	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.64		0.27	0.038	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.15	J	0.27	0.041	mg/Kg	1	☼	6010C	Total/NA
Calcium	90500		67.8	4.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.8		0.68	0.27	mg/Kg	1	☼	6010C	Total/NA
Cobalt	12.0		0.68	0.068	mg/Kg	1	☼	6010C	Total/NA
Copper	20.0		1.4	0.28	mg/Kg	1	☼	6010C	Total/NA
Iron	24500		13.6	4.7	mg/Kg	1	☼	6010C	Total/NA
Lead	17.5		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5400		27.1	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	712		0.27	0.043	mg/Kg	1	☼	6010C	Total/NA
Nickel	39.7		6.8	0.31	mg/Kg	1	☼	6010C	Total/NA
Potassium	2780		40.7	27.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.8	J	5.4	0.54	mg/Kg	1	☼	6010C	Total/NA
Sodium	147	J B	190	17.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.0		0.68	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	40.0		2.7	0.87	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.031		0.028	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-3
Date Collected: 09/15/21 09:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-1
Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,1,2,2-Tetrachloroethane	ND	F1	4.4	0.71	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	4.4	0.99	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,1,2-Trichloroethane	ND	F1	4.4	0.57	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,1-Dichloroethane	ND		4.4	0.53	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,1-Dichloroethene	ND		4.4	0.53	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,2,4-Trichlorobenzene	ND	F1	4.4	0.27	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.4	2.2	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,2-Dibromoethane	ND	F1	4.4	0.56	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,2-Dichlorobenzene	ND	F1	4.4	0.34	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,2-Dichloroethane	ND	F1	4.4	0.22	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,3-Dichlorobenzene	ND	F1	4.4	0.22	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
1,4-Dichlorobenzene	ND	F1	4.4	0.61	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
2-Butanone (MEK)	ND	F1	22	1.6	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
2-Hexanone	ND	F1	22	2.2	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
4-Methyl-2-pentanone (MIBK)	ND	F1	22	1.4	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Acetone	ND		22	3.7	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Benzene	ND		4.4	0.21	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Bromodichloromethane	ND	F1	4.4	0.58	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Bromoform	ND	F1	4.4	2.2	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Bromomethane	ND		4.4	0.39	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Carbon tetrachloride	ND		4.4	0.42	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Chlorobenzene	ND	F1	4.4	0.58	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Chloroethane	ND		4.4	0.99	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Chloromethane	ND		4.4	0.26	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
cis-1,2-Dichloroethene	ND	F1	4.4	0.56	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
cis-1,3-Dichloropropene	ND	F1	4.4	0.63	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Cyclohexane	ND		4.4	0.61	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Dibromochloromethane	ND	F1	4.4	0.56	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Ethylbenzene	ND	F1	4.4	0.30	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Isopropylbenzene	ND		4.4	0.66	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Methylcyclohexane	ND		4.4	0.66	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Methylene Chloride	ND		4.4	2.0	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Styrene	ND	F1	4.4	0.22	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Toluene	ND		4.4	0.33	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
trans-1,2-Dichloroethene	ND		4.4	0.45	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
trans-1,3-Dichloropropene	ND	F1	4.4	1.9	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Trichloroethene	ND		4.4	0.96	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Trichlorofluoromethane	ND		4.4	0.41	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Vinyl chloride	ND		4.4	0.53	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1
Xylenes, Total	ND	F1	8.7	0.73	ug/Kg	☼	09/16/21 13:31	09/17/21 01:16	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-3
Date Collected: 09/15/21 09:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-1
Matrix: Solid
Percent Solids: 88.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*09/16/21 13:31*	*09/17/21 01:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*09/16/21 13:31*	*09/17/21 01:16*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*09/16/21 13:31*	*09/17/21 01:16*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*09/16/21 13:31*	*09/17/21 01:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	60	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2,4,5-Trichlorophenol	ND		190	50	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2,4,6-Trichlorophenol	ND		190	37	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2,4-Dinitrophenol	ND		1800	860	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2,4-Dinitrotoluene	ND		190	38	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2-Chlorophenol	ND		360	34	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2-Methylnaphthalene	ND		190	37	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2-Methylphenol	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2-Nitroaniline	ND		360	27	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
3-Nitroaniline	ND		360	52	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4-Bromophenyl phenyl ether	ND		190	26	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4-Methylphenol	ND		360	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4-Nitroaniline	ND		360	98	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Acenaphthene	ND		190	27	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Acenaphthylene	ND		190	24	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Acetophenone	ND		190	25	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Anthracene	ND		190	46	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Atrazine	ND		190	65	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Benzaldehyde	ND	F2	190	150	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Benzo[a]pyrene	ND		190	27	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Biphenyl	ND		190	27	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
bis (2-chloroisopropyl) ether	ND		190	37	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Bis(2-chloroethoxy)methane	ND		190	39	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Caprolactam	ND		190	56	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Carbazole	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-3
Lab Sample ID: 480-189652-1
Date Collected: 09/15/21 09:30
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		190	42	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Dibenzofuran	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Fluoranthene	ND		190	20	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Fluorene	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Hexachlorobutadiene	ND		190	27	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Hexachloroethane	ND		190	24	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Isophorone	ND		190	39	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Naphthalene	ND		190	24	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Nitrobenzene	ND		190	21	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Phenanthrene	ND		190	27	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Phenol	ND		190	29	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1
Pyrene	ND		190	22	ug/Kg	☼	09/17/21 08:28	09/18/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*54 - 120*	*09/17/21 08:28*	*09/18/21 16:20*	*1*
2-Fluorobiphenyl	*100*		*60 - 120*	*09/17/21 08:28*	*09/18/21 16:20*	*1*
2-Fluorophenol	*76*		*52 - 120*	*09/17/21 08:28*	*09/18/21 16:20*	*1*
Nitrobenzene-d5	*87*		*53 - 120*	*09/17/21 08:28*	*09/18/21 16:20*	*1*
Phenol-d5	*77*		*54 - 120*	*09/17/21 08:28*	*09/18/21 16:20*	*1*
p-Terphenyl-d14	*118*		*79 - 130*	*09/17/21 08:28*	*09/18/21 16:20*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.36	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
4,4'-DDE	ND		1.9	0.39	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
4,4'-DDT	ND		1.9	0.43	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
alpha-BHC	ND		1.9	0.33	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
beta-BHC	**0.51**	**J**	1.9	0.33	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
cis-Chlordane	ND		1.9	0.93	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Dieldrin	ND		1.9	0.45	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Endosulfan II	ND		1.9	0.33	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Endrin	ND		1.9	0.37	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Endrin aldehyde	ND		1.9	0.47	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Endrin ketone	**0.68**	**J B**	1.9	0.46	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
gamma-BHC (Lindane)	ND		1.9	0.34	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-3
Date Collected: 09/15/21 09:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-1
Matrix: Solid
Percent Solids: 88.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.40	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Heptachlor epoxide	ND		1.9	0.48	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
Toxaphene	ND		19	11	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1
trans-Chlordane	ND		1.9	0.59	ug/Kg	☼	09/18/21 06:17	09/20/21 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*45 - 120*	*09/18/21 06:17*	*09/20/21 11:30*	*1*
DCB Decachlorobiphenyl	*85*		*45 - 120*	*09/18/21 06:17*	*09/20/21 11:30*	*1*
Tetrachloro-m-xylene	*77*		*30 - 124*	*09/18/21 06:17*	*09/20/21 11:30*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*09/18/21 06:17*	*09/20/21 11:30*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	09/17/21 08:03	09/18/21 13:55	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	09/17/21 08:03	09/18/21 13:55	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	09/17/21 08:03	09/18/21 13:55	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	09/17/21 08:03	09/18/21 13:55	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	09/17/21 08:03	09/18/21 13:55	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	09/17/21 08:03	09/18/21 13:55	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	09/17/21 08:03	09/18/21 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*09/17/21 08:03*	*09/18/21 13:55*	*1*
Tetrachloro-m-xylene	*101*		*60 - 154*	*09/17/21 08:03*	*09/18/21 13:55*	*1*
DCB Decachlorobiphenyl	*93*		*65 - 174*	*09/17/21 08:03*	*09/18/21 13:55*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*09/17/21 08:03*	*09/18/21 13:55*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.0	ug/Kg	☼	09/21/21 06:53	09/23/21 16:06	1
2,4-D	ND		19	12	ug/Kg	☼	09/21/21 06:53	09/23/21 16:06	1
Silvex (2,4,5-TP)	ND		19	6.7	ug/Kg	☼	09/21/21 06:53	09/23/21 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*39*		*28 - 129*	*09/21/21 06:53*	*09/23/21 16:06*	*1*
2,4-Dichlorophenylacetic acid	*33*		*28 - 129*	*09/21/21 06:53*	*09/23/21 16:06*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.56	0.18	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluoropentanoic acid (PFPeA)	ND		0.22	0.043	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorohexanoic acid (PFHxA)	ND		0.22	0.024	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.022	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorooctanoic acid (PFOA)	ND		0.22	0.028	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorononanoic acid (PFNA)	ND		0.22	0.020	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorodecanoic acid (PFDA)	ND		0.22	0.013	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.022	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorododecanoic acid (PFDoA)	ND		0.22	0.023	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.017	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorotetradecanoic acid (PFTeA)	ND	F1	0.22	0.026	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1

Client Sample ID: TP-3
Date Collected: 09/15/21 09:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-1
Matrix: Solid
Percent Solids: 88.6

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.010	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.016	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.22	0.017	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorooctanesulfonic acid (PFOS)	**0.020**	**J I B**	0.22	0.018	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.013	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.019	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.041	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.051	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.2	0.034	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.2	0.018	ug/Kg	☼	09/20/21 15:46	09/22/21 03:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*76*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C4 PFHpA	*80*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C4 PFOA	*81*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C4 PFOS	*76*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C5 PFNA	*77*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C4 PFBA	*81*		*25 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C2 PFHxA	*81*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C2 PFDA	*76*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C2 PFUnA	*69*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C2 PFDoA	*70*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C8 FOSA	*72*		*25 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C5 PFPeA	*84*		*25 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C2 PFTeDA	*71*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
d3-NMeFOSAA	*66*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
d5-NEtFOSAA	*69*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
M2-6:2 FTS	*89*		*25 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
M2-8:2 FTS	*73*		*25 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*
13C3 PFBS	*81*		*50 - 150*	*09/20/21 15:46*	*09/22/21 03:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11400**		10.9	4.8	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Antimony	**0.91**	**J F1**	16.4	0.44	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Arsenic	**3.6**		2.2	0.44	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Barium	**43.7**	**F1**	0.55	0.12	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Beryllium	**0.59**		0.22	0.031	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Cadmium	**0.24**		0.22	0.033	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Calcium	**18300**	**F2**	54.7	3.6	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Chromium	**16.6**		0.55	0.22	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Cobalt	**7.1**		0.55	0.055	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Copper	**21.0**		1.1	0.23	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Iron	**17900**		10.9	3.8	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Lead	**12.2**		1.1	0.26	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Magnesium	**5540**	**F1**	21.9	1.0	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-3
Lab Sample ID: 480-189652-1
Date Collected: 09/15/21 09:30
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 88.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	164	F1	0.22	0.035	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Nickel	28.6		5.5	0.25	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Potassium	1880	F1	32.8	21.9	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Selenium	1.9	J	4.4	0.44	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Silver	ND		0.66	0.22	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Sodium	139	J	153	14.2	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Thallium	ND		6.6	0.33	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Vanadium	22.4	F1	0.55	0.12	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1
Zinc	94.6	F1	2.2	0.70	mg/Kg	☼	09/17/21 15:27	09/20/21 22:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.024	0.0055	mg/Kg	☼	09/24/21 14:07	09/24/21 16:40	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-17
Date Collected: 09/15/21 10:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-2
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,1,2,2-Tetrachloroethane	ND	F1	4.6	0.74	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,1,2-Trichloroethane	ND	F1	4.6	0.60	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,2,4-Trichlorobenzene	ND	F1	4.6	0.28	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.6	2.3	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,2-Dibromoethane	ND	F1	4.6	0.59	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,2-Dichlorobenzene	ND	F1	4.6	0.36	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,2-Dichloroethane	ND	F1	4.6	0.23	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,2-Dichloropropane	ND	F1	4.6	2.3	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,3-Dichlorobenzene	ND	F1	4.6	0.24	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
1,4-Dichlorobenzene	ND	F1	4.6	0.64	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
2-Butanone (MEK)	ND	F1	23	1.7	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
2-Hexanone	ND	F1	23	2.3	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
4-Methyl-2-pentanone (MIBK)	ND	F1	23	1.5	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Acetone	ND		23	3.9	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Benzene	ND	F1	4.6	0.23	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Bromodichloromethane	ND	F1	4.6	0.62	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Bromoform	ND	F1	4.6	2.3	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Carbon disulfide	ND	F1	4.6	2.3	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Chlorobenzene	ND	F1	4.6	0.61	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Chloroform	ND	F1	4.6	0.28	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
cis-1,2-Dichloroethene	ND	F1	4.6	0.59	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
cis-1,3-Dichloropropene	ND	F1	4.6	0.66	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Dibromochloromethane	ND	F1	4.6	0.59	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Ethylbenzene	ND	F1	4.6	0.32	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Methyl acetate	ND	F1	23	2.8	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Styrene	ND	F1	4.6	0.23	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Toluene	ND		4.6	0.35	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
trans-1,2-Dichloroethene	ND	F1	4.6	0.47	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
trans-1,3-Dichloropropene	ND	F1	4.6	2.0	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1
Xylenes, Total	ND	F1	9.2	0.77	ug/Kg	☼	09/16/21 13:31	09/17/21 01:39	1

Client Sample ID: TP-17
Date Collected: 09/15/21 10:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-2
Matrix: Solid
Percent Solids: 84.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*09/16/21 13:31*	*09/17/21 01:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*09/16/21 13:31*	*09/17/21 01:39*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*09/16/21 13:31*	*09/17/21 01:39*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*09/16/21 13:31*	*09/17/21 01:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	65	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2,4-Dinitrophenol	ND		2000	920	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2-Chlorophenol	ND		390	37	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2-Methylphenol	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4-Methylphenol	ND		390	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Acenaphthene	ND		200	29	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Acenaphthylene	ND		200	26	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Acetophenone	ND		200	27	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Anthracene	ND		200	50	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Atrazine	ND		200	70	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Benzaldehyde	ND		200	160	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Biphenyl	ND		200	29	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Caprolactam	ND		200	60	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Carbazole	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1

Client Sample ID: TP-17
Lab Sample ID: 480-189652-2
Date Collected: 09/15/21 10:00
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		200	45	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Dibenzofuran	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Fluoranthene	ND		200	21	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Fluorene	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Hexachloroethane	ND		200	26	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Isophorone	ND		200	42	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Naphthalene	ND		200	26	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Nitrobenzene	ND		200	22	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Phenanthrene	ND		200	29	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Phenol	ND		200	31	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1
Pyrene	ND		200	24	ug/Kg	☼	09/20/21 08:01	09/21/21 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*54 - 120*	*09/20/21 08:01*	*09/21/21 15:50*	*1*
2-Fluorobiphenyl	*86*		*60 - 120*	*09/20/21 08:01*	*09/21/21 15:50*	*1*
2-Fluorophenol	*66*		*52 - 120*	*09/20/21 08:01*	*09/21/21 15:50*	*1*
Nitrobenzene-d5	*71*		*53 - 120*	*09/20/21 08:01*	*09/21/21 15:50*	*1*
Phenol-d5	*72*		*54 - 120*	*09/20/21 08:01*	*09/21/21 15:50*	*1*
p-Terphenyl-d14	*93*		*79 - 130*	*09/20/21 08:01*	*09/21/21 15:50*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
alpha-BHC	ND		1.9	0.35	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
beta-BHC	ND		1.9	0.35	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
cis-Chlordane	ND		1.9	0.96	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Endosulfan II	ND		1.9	0.35	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Endrin	ND		1.9	0.38	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Endrin ketone	**0.49**	**J B**	1.9	0.47	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1

Client Sample ID: TP-17
Date Collected: 09/15/21 10:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-2
Matrix: Solid
Percent Solids: 84.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.42	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Heptachlor epoxide	ND		1.9	0.50	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
Toxaphene	ND		19	11	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1
trans-Chlordane	ND		1.9	0.61	ug/Kg	☼	09/18/21 06:17	09/20/21 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*45 - 120*	*09/18/21 06:17*	*09/20/21 11:49*	*1*
DCB Decachlorobiphenyl	*90*		*45 - 120*	*09/18/21 06:17*	*09/20/21 11:49*	*1*
Tetrachloro-m-xylene	*87*		*30 - 124*	*09/18/21 06:17*	*09/20/21 11:49*	*1*
Tetrachloro-m-xylene	*84*		*30 - 124*	*09/18/21 06:17*	*09/20/21 11:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	09/17/21 08:03	09/18/21 14:08	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	09/17/21 08:03	09/18/21 14:08	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	09/17/21 08:03	09/18/21 14:08	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	09/17/21 08:03	09/18/21 14:08	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	09/17/21 08:03	09/18/21 14:08	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/17/21 08:03	09/18/21 14:08	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/17/21 08:03	09/18/21 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*60 - 154*	*09/17/21 08:03*	*09/18/21 14:08*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*09/17/21 08:03*	*09/18/21 14:08*	*1*
DCB Decachlorobiphenyl	*93*		*65 - 174*	*09/17/21 08:03*	*09/18/21 14:08*	*1*
DCB Decachlorobiphenyl	*99*		*65 - 174*	*09/17/21 08:03*	*09/18/21 14:08*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.2	ug/Kg	☼	09/20/21 07:12	09/21/21 20:50	1
2,4-D	ND		19	12	ug/Kg	☼	09/20/21 07:12	09/21/21 20:50	1
Silvex (2,4,5-TP)	ND		19	7.0	ug/Kg	☼	09/20/21 07:12	09/21/21 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*09/20/21 07:12*	*09/21/21 20:50*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*09/20/21 07:12*	*09/21/21 20:50*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.58	0.19	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluoropentanoic acid (PFPeA)	ND		0.23	0.045	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorohexanoic acid (PFHxA)	**0.028**	**J**	0.23	0.025	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.023	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorooctanoic acid (PFOA)	ND		0.23	0.029	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorononanoic acid (PFNA)	ND		0.23	0.021	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorodecanoic acid (PFDA)	**0.017**	**J**	0.23	0.014	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluoroundecanoic acid (PFUnA)	**0.026**	**J**	0.23	0.023	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.024	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorotridecanoic acid (PFTriA)	**0.020**	**J**	0.23	0.017	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-17
Date Collected: 09/15/21 10:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-2
Matrix: Solid
Percent Solids: 84.4

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	ND	F1	0.23	0.026	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorobutanesulfonic acid (PFBS)	**0.021**	**J B**	0.23	0.011	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorohexanesulfonic acid (PFHxS)	**0.029**	**J**	0.23	0.016	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.019**	**J**	0.23	0.017	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorooctanesulfonic acid (PFOS)	**0.022**	**J B**	0.23	0.018	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorodecanesulfonic acid (PFDS)	**0.018**	**J**	0.23	0.014	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
Perfluorooctanesulfonamide (PFOSA)	**0.026**	**J**	0.23	0.020	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**0.079**	**J B**	2.3	0.043	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**0.096**	**J**	2.3	0.053	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.3	0.036	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	**0.027**	**J**	2.3	0.018	ug/Kg	☼	09/20/21 15:46	09/22/21 04:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*71*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C4 PFHpA	*78*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C4 PFOA	*77*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C4 PFOS	*72*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C5 PFNA	*75*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C4 PFBA	*77*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C2 PFHxA	*74*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C2 PFDA	*77*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C2 PFUnA	*65*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C2 PFDoA	*66*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C8 FOSA	*71*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C5 PFPeA	*79*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C2 PFTeDA	*63*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
d3-NMeFOSAA	*71*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
d5-NEtFOSAA	*66*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
M2-6:2 FTS	*84*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
M2-8:2 FTS	*71*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*
13C3 PFBS	*83*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19900**		12.1	5.3	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Antimony	**1.9**	**J**	18.2	0.48	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Arsenic	**10.8**		2.4	0.48	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Barium	**112**		0.61	0.13	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Beryllium	**1.4**		0.24	0.034	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Cadmium	**2.0**		0.24	0.036	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Calcium	**3780**		60.6	4.0	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Chromium	**25.9**		0.61	0.24	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Cobalt	**83.4**		0.61	0.061	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-17
Lab Sample ID: 480-189652-2
Date Collected: 09/15/21 10:00
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 84.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	44.5		1.2	0.25	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Iron	39600		12.1	4.2	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Lead	62.4		1.2	0.29	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Magnesium	3590		24.2	1.1	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Manganese	3670		0.24	0.039	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Nickel	71.0		6.1	0.28	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Potassium	2440		36.4	24.2	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Selenium	4.5	J	4.8	0.48	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Silver	ND		0.73	0.24	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Sodium	64.0	J	170	15.8	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Thallium	ND		7.3	0.36	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Vanadium	41.2		0.61	0.13	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1
Zinc	104		2.4	0.78	mg/Kg	☼	09/17/21 15:27	09/20/21 23:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.027	0.0062	mg/Kg	☼	09/24/21 14:07	09/24/21 16:44	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-8
Date Collected: 09/15/21 11:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-3
Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.7	0.41	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,1,2,2-Tetrachloroethane	ND		5.7	0.92	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	1.3	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,1,2-Trichloroethane	ND		5.7	0.74	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,1-Dichloroethane	ND		5.7	0.69	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,1-Dichloroethene	ND		5.7	0.69	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,2,4-Trichlorobenzene	ND		5.7	0.34	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,2-Dibromo-3-Chloropropane	ND		5.7	2.8	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,2-Dibromoethane	ND		5.7	0.73	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,2-Dichlorobenzene	ND		5.7	0.44	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,2-Dichloroethane	ND		5.7	0.28	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,2-Dichloropropane	ND		5.7	2.8	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,3-Dichlorobenzene	ND		5.7	0.29	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
1,4-Dichlorobenzene	ND		5.7	0.79	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
2-Butanone (MEK)	ND		28	2.1	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
2-Hexanone	ND		28	2.8	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		28	1.9	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Acetone	ND		28	4.8	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Benzene	ND		5.7	0.28	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Bromodichloromethane	ND		5.7	0.76	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Bromoform	ND		5.7	2.8	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Bromomethane	ND		5.7	0.51	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Carbon disulfide	ND		5.7	2.8	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Carbon tetrachloride	ND		5.7	0.55	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Chlorobenzene	ND		5.7	0.75	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Chloroethane	ND		5.7	1.3	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Chloroform	ND		5.7	0.35	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Chloromethane	ND		5.7	0.34	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
cis-1,2-Dichloroethene	ND		5.7	0.73	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
cis-1,3-Dichloropropene	ND		5.7	0.82	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Cyclohexane	ND		5.7	0.79	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Dibromochloromethane	ND		5.7	0.73	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Dichlorodifluoromethane	ND		5.7	0.47	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Ethylbenzene	ND		5.7	0.39	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Isopropylbenzene	ND		5.7	0.85	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Methyl acetate	ND		28	3.4	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Methyl tert-butyl ether	ND		5.7	0.56	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Methylcyclohexane	ND		5.7	0.86	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Methylene Chloride	ND		5.7	2.6	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Styrene	ND		5.7	0.28	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Tetrachloroethene	ND		5.7	0.76	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Toluene	ND		5.7	0.43	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
trans-1,2-Dichloroethene	ND		5.7	0.59	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
trans-1,3-Dichloropropene	ND		5.7	2.5	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Trichloroethene	ND		5.7	1.2	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Trichlorofluoromethane	ND		5.7	0.54	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Vinyl chloride	ND		5.7	0.69	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1
Xylenes, Total	ND		11	0.95	ug/Kg	☼	09/16/21 13:31	09/17/21 02:03	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-8

Date Collected: 09/15/21 11:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-3

Matrix: Solid
Percent Solids: 75.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*09/16/21 13:31*	*09/17/21 02:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*09/16/21 13:31*	*09/17/21 02:03*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*09/16/21 13:31*	*09/17/21 02:03*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*09/16/21 13:31*	*09/17/21 02:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	72	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2,4,5-Trichlorophenol	ND		220	60	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2,4-Dimethylphenol	ND		220	54	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2,4-Dinitrophenol	ND		2200	1000	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2,4-Dinitrotoluene	ND		220	46	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2-Chloronaphthalene	ND		220	37	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2-Chlorophenol	ND		430	40	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2-Methylnaphthalene	ND		220	44	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2-Methylphenol	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2-Nitroaniline	ND		430	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
2-Nitrophenol	ND		220	63	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
3,3'-Dichlorobenzidine	ND		430	260	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
3-Nitroaniline	ND		430	61	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4,6-Dinitro-2-methylphenol	ND		430	220	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4-Chloro-3-methylphenol	ND		220	55	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4-Chloroaniline	ND		220	55	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4-Methylphenol	ND		430	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4-Nitroaniline	ND		430	120	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
4-Nitrophenol	ND		430	160	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Acenaphthene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Acenaphthylene	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Acetophenone	ND		220	30	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Anthracene	ND		220	55	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Atrazine	ND		220	77	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Benzaldehyde	ND		220	180	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Benzo[a]anthracene	ND		220	22	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Benzo[a]pyrene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Benzo[b]fluoranthene	ND		220	35	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Benzo[g,h,i]perylene	ND		220	23	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Benzo[k]fluoranthene	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Biphenyl	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Bis(2-chloroethoxy)methane	ND		220	47	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Bis(2-chloroethyl)ether	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Bis(2-ethylhexyl) phthalate	ND		220	76	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Butyl benzyl phthalate	ND		220	37	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Caprolactam	ND		220	67	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Carbazole	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1

Client Sample ID: TP-8
Lab Sample ID: 480-189652-3
Date Collected: 09/15/21 11:00
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 75.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		220	50	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Dibenzofuran	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Diethyl phthalate	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Dimethyl phthalate	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Di-n-butyl phthalate	ND		220	38	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Fluoranthene	ND		220	23	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Fluorene	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Hexachlorobutadiene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Hexachloroethane	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Indeno[1,2,3-cd]pyrene	ND		220	27	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Isophorone	ND		220	47	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Naphthalene	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Nitrobenzene	ND		220	25	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
N-Nitrosodi-n-propylamine	ND		220	38	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Pentachlorophenol	ND		430	220	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Phenanthrene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Phenol	ND		220	34	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1
Pyrene	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*54 - 120*	*09/20/21 08:01*	*09/21/21 16:13*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*09/20/21 08:01*	*09/21/21 16:13*	*1*
2-Fluorophenol	*73*		*52 - 120*	*09/20/21 08:01*	*09/21/21 16:13*	*1*
Nitrobenzene-d5	*81*		*53 - 120*	*09/20/21 08:01*	*09/21/21 16:13*	*1*
Phenol-d5	*77*		*54 - 120*	*09/20/21 08:01*	*09/21/21 16:13*	*1*
p-Terphenyl-d14	*103*		*79 - 130*	*09/20/21 08:01*	*09/21/21 16:13*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.42	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
4,4'-DDE	ND		2.1	0.45	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
4,4'-DDT	ND		2.1	0.50	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Aldrin	ND		2.1	0.53	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
alpha-BHC	ND		2.1	0.38	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
beta-BHC	ND		2.1	0.38	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
cis-Chlordane	ND		2.1	1.1	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
delta-BHC	ND		2.1	0.40	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Dieldrin	ND		2.1	0.51	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Endosulfan I	ND		2.1	0.41	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Endosulfan II	ND		2.1	0.38	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Endosulfan sulfate	ND		2.1	0.40	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Endrin	ND		2.1	0.42	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Endrin aldehyde	ND		2.1	0.55	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Endrin ketone	**0.57**	**J B**	2.1	0.53	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
gamma-BHC (Lindane)	ND		2.1	0.39	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-8
Date Collected: 09/15/21 11:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-3
Matrix: Solid
Percent Solids: 75.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.1	0.46	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Heptachlor epoxide	ND		2.1	0.55	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Methoxychlor	ND		2.1	0.44	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
Toxaphene	ND		21	12	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1
trans-Chlordane	ND		2.1	0.68	ug/Kg	☼	09/18/21 06:17	09/20/21 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*45 - 120*	*09/18/21 06:17*	*09/20/21 12:09*	*1*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*09/18/21 06:17*	*09/20/21 12:09*	*1*
Tetrachloro-m-xylene	*90*		*30 - 124*	*09/18/21 06:17*	*09/20/21 12:09*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*09/18/21 06:17*	*09/20/21 12:09*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.058	mg/Kg	☼	09/17/21 08:03	09/18/21 14:21	1
PCB-1221	ND		0.29	0.058	mg/Kg	☼	09/17/21 08:03	09/18/21 14:21	1
PCB-1232	ND		0.29	0.058	mg/Kg	☼	09/17/21 08:03	09/18/21 14:21	1
PCB-1242	ND		0.29	0.058	mg/Kg	☼	09/17/21 08:03	09/18/21 14:21	1
PCB-1248	ND		0.29	0.058	mg/Kg	☼	09/17/21 08:03	09/18/21 14:21	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	09/17/21 08:03	09/18/21 14:21	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	09/17/21 08:03	09/18/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*		*60 - 154*	*09/17/21 08:03*	*09/18/21 14:21*	*1*
Tetrachloro-m-xylene	*110*		*60 - 154*	*09/17/21 08:03*	*09/18/21 14:21*	*1*
DCB Decachlorobiphenyl	*101*		*65 - 174*	*09/17/21 08:03*	*09/18/21 14:21*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*09/17/21 08:03*	*09/18/21 14:21*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.9	ug/Kg	☼	09/20/21 07:12	09/21/21 21:49	1
2,4-D	ND		21	14	ug/Kg	☼	09/20/21 07:12	09/21/21 21:49	1
Silvex (2,4,5-TP)	ND		21	7.7	ug/Kg	☼	09/20/21 07:12	09/21/21 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*	*09/20/21 07:12*	*09/21/21 21:49*	*1*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*	*09/20/21 07:12*	*09/21/21 21:49*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.23**	**J**	0.64	0.21	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluoropentanoic acid (PFPeA)	**0.055**	**J**	0.26	0.050	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorohexanoic acid (PFHxA)	**0.077**	**J**	0.26	0.028	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluoroheptanoic acid (PFHpA)	**0.053**	**J**	0.26	0.026	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorooctanoic acid (PFOA)	**0.17**	**J**	0.26	0.032	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorononanoic acid (PFNA)	**0.048**	**J**	0.26	0.023	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorodecanoic acid (PFDA)	**0.018**	**J**	0.26	0.015	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluoroundecanoic acid (PFUnA)	ND		0.26	0.026	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorododecanoic acid (PFDoA)	ND		0.26	0.027	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorotridecanoic acid (PFTriA)	ND		0.26	0.019	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.26	0.029	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1

Client Sample ID: TP-8
Date Collected: 09/15/21 11:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-3
Matrix: Solid
Percent Solids: 75.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.031	J B	0.26	0.012	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorohexanesulfonic acid (PFHxS)	0.033	J	0.26	0.018	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.020	J I	0.26	0.019	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorooctanesulfonic acid (PFOS)	0.17	J I B	0.26	0.021	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.26	0.015	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.26	0.022	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.6	0.047	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.6	0.059	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.6	0.040	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.6	0.021	ug/Kg	☼	09/20/21 15:46	09/22/21 04:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*75*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C4 PFHpA	*78*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C4 PFOA	*78*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C4 PFOS	*73*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C5 PFNA	*71*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C4 PFBA	*75*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C2 PFHxA	*77*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C2 PFDA	*72*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C2 PFUnA	*69*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C2 PFDoA	*73*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C8 FOSA	*71*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C5 PFPeA	*79*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C2 PFTeDA	*71*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
d3-NMeFOSAA	*68*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
d5-NEtFOSAA	*70*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
M2-6:2 FTS	*91*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
M2-8:2 FTS	*81*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*
13C3 PFBS	*79*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19400		13.6	6.0	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Antimony	1.5	J	20.4	0.54	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Arsenic	10.5		2.7	0.54	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Barium	61.6		0.68	0.15	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Beryllium	0.98		0.27	0.038	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Cadmium	0.33		0.27	0.041	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Calcium	1570		67.9	4.5	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Chromium	26.0		0.68	0.27	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Cobalt	16.0		0.68	0.068	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Copper	22.5		1.4	0.29	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Iron	30900		13.6	4.8	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-8
Date Collected: 09/15/21 11:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-3
Matrix: Solid
Percent Solids: 75.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23.9		1.4	0.33	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Magnesium	3460		27.2	1.3	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Manganese	544		0.27	0.043	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Nickel	31.9		6.8	0.31	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Potassium	1950		40.7	27.2	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Selenium	3.8	J	5.4	0.54	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Silver	ND		0.81	0.27	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Sodium	71.4	J B	190	17.7	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Thallium	ND		8.1	0.41	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Vanadium	39.2		0.68	0.15	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1
Zinc	109		2.7	0.87	mg/Kg	☼	09/17/21 15:27	09/20/21 23:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.025	0.0057	mg/Kg	☼	09/24/21 14:07	09/24/21 16:50	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-1
Date Collected: 09/15/21 12:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-4
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.6	0.48	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,1,2,2-Tetrachloroethane	ND		6.6	1.1	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	1.5	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,1,2-Trichloroethane	ND		6.6	0.86	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,1-Dichloroethane	ND		6.6	0.81	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,1-Dichloroethene	ND		6.6	0.81	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,2,4-Trichlorobenzene	ND		6.6	0.40	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,2-Dibromo-3-Chloropropane	ND		6.6	3.3	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,2-Dibromoethane	ND		6.6	0.85	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,2-Dichlorobenzene	ND		6.6	0.52	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,2-Dichloroethane	ND		6.6	0.33	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,2-Dichloropropane	ND		6.6	3.3	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,3-Dichlorobenzene	ND		6.6	0.34	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
1,4-Dichlorobenzene	ND		6.6	0.93	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
2-Butanone (MEK)	ND		33	2.4	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
2-Hexanone	ND		33	3.3	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
4-Methyl-2-pentanone (MIBK)	ND		33	2.2	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Acetone	ND		33	5.6	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Benzene	ND		6.6	0.32	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Bromodichloromethane	ND		6.6	0.89	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Bromoform	ND		6.6	3.3	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Bromomethane	ND		6.6	0.60	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Carbon disulfide	ND		6.6	3.3	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Carbon tetrachloride	ND		6.6	0.64	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Chlorobenzene	ND		6.6	0.87	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Chloroethane	ND		6.6	1.5	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Chloroform	ND		6.6	0.41	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Chloromethane	ND		6.6	0.40	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
cis-1,2-Dichloroethene	ND		6.6	0.85	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
cis-1,3-Dichloropropene	ND		6.6	0.95	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Cyclohexane	ND		6.6	0.93	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Dibromochloromethane	ND		6.6	0.85	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Dichlorodifluoromethane	ND		6.6	0.55	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Ethylbenzene	ND		6.6	0.46	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Isopropylbenzene	ND		6.6	1.0	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Methyl acetate	ND		33	4.0	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Methyl tert-butyl ether	ND		6.6	0.65	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Methylcyclohexane	ND		6.6	1.0	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Methylene Chloride	ND		6.6	3.0	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Styrene	ND		6.6	0.33	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Tetrachloroethene	ND		6.6	0.89	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Toluene	ND		6.6	0.50	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
trans-1,2-Dichloroethene	ND		6.6	0.68	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
trans-1,3-Dichloropropene	ND		6.6	2.9	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Trichloroethene	ND		6.6	1.5	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Trichlorofluoromethane	ND		6.6	0.63	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Vinyl chloride	ND		6.6	0.81	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	09/16/21 13:31	09/17/21 02:26	1

Client Sample ID: TP-1
Date Collected: 09/15/21 12:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-4
Matrix: Solid
Percent Solids: 76.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*09/16/21 13:31*	*09/17/21 02:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*09/16/21 13:31*	*09/17/21 02:26*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*09/16/21 13:31*	*09/17/21 02:26*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*09/16/21 13:31*	*09/17/21 02:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	72	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2,4,5-Trichlorophenol	ND		220	60	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2,4-Dimethylphenol	ND		220	53	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2,4-Dinitrophenol	ND		2200	1000	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2,4-Dinitrotoluene	ND		220	46	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2-Chloronaphthalene	ND		220	36	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2-Chlorophenol	ND		430	40	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2-Methylnaphthalene	ND		220	44	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2-Methylphenol	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2-Nitroaniline	ND		430	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
2-Nitrophenol	ND		220	63	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
3,3'-Dichlorobenzidine	ND		430	260	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
3-Nitroaniline	ND		430	61	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4,6-Dinitro-2-methylphenol	ND		430	220	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4-Chloro-3-methylphenol	ND		220	55	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4-Chloroaniline	ND		220	55	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4-Methylphenol	ND		430	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4-Nitroaniline	ND		430	120	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
4-Nitrophenol	ND		430	160	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Acenaphthene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Acenaphthylene	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Acetophenone	ND		220	30	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Anthracene	ND		220	55	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Atrazine	ND		220	77	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Benzaldehyde	ND		220	180	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Benzo[a]anthracene	ND		220	22	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Benzo[a]pyrene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Benzo[b]fluoranthene	ND		220	35	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Benzo[g,h,i]perylene	ND		220	23	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Benzo[k]fluoranthene	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Biphenyl	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Bis(2-chloroethoxy)methane	ND		220	47	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Bis(2-chloroethyl)ether	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Bis(2-ethylhexyl) phthalate	**220**		220	76	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Caprolactam	ND		220	66	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Carbazole	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1

Client Sample ID: TP-1
Lab Sample ID: 480-189652-4
Date Collected: 09/15/21 12:30
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 76.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		220	50	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Dibenzofuran	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Diethyl phthalate	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Dimethyl phthalate	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Di-n-butyl phthalate	ND		220	38	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Fluoranthene	ND		220	23	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Fluorene	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Hexachlorobutadiene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Hexachloroethane	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Indeno[1,2,3-cd]pyrene	ND		220	27	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Isophorone	ND		220	47	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Naphthalene	ND		220	29	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Nitrobenzene	ND		220	25	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
N-Nitrosodi-n-propylamine	ND		220	38	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Pentachlorophenol	ND		430	220	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Phenanthrene	ND		220	33	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Phenol	ND		220	34	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1
Pyrene	ND		220	26	ug/Kg	☼	09/20/21 08:01	09/21/21 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*54 - 120*	*09/20/21 08:01*	*09/21/21 16:37*	*1*
2-Fluorobiphenyl	*79*		*60 - 120*	*09/20/21 08:01*	*09/21/21 16:37*	*1*
2-Fluorophenol	*66*		*52 - 120*	*09/20/21 08:01*	*09/21/21 16:37*	*1*
Nitrobenzene-d5	*68*		*53 - 120*	*09/20/21 08:01*	*09/21/21 16:37*	*1*
Phenol-d5	*69*		*54 - 120*	*09/20/21 08:01*	*09/21/21 16:37*	*1*
p-Terphenyl-d14	*100*		*79 - 130*	*09/20/21 08:01*	*09/21/21 16:37*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.42	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
4,4'-DDE	ND		2.1	0.45	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
4,4'-DDT	ND		2.1	0.50	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Aldrin	ND		2.1	0.53	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
alpha-BHC	ND		2.1	0.39	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
beta-BHC	**0.95**	**J**	2.1	0.39	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
cis-Chlordane	ND		2.1	1.1	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
delta-BHC	ND		2.1	0.40	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Dieldrin	ND		2.1	0.51	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Endosulfan I	ND		2.1	0.41	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Endosulfan II	ND		2.1	0.39	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Endosulfan sulfate	ND		2.1	0.40	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Endrin	ND		2.1	0.42	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Endrin aldehyde	ND		2.1	0.55	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Endrin ketone	**0.73**	**J B**	2.1	0.53	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
gamma-BHC (Lindane)	ND		2.1	0.39	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-1
Date Collected: 09/15/21 12:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-4
Matrix: Solid
Percent Solids: 76.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.1	0.46	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Heptachlor epoxide	ND		2.1	0.55	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Methoxychlor	ND		2.1	0.44	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
Toxaphene	ND		21	12	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1
trans-Chlordane	ND		2.1	0.68	ug/Kg	☼	09/18/21 06:17	09/20/21 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*45 - 120*	*09/18/21 06:17*	*09/20/21 12:28*	*1*
DCB Decachlorobiphenyl	*85*		*45 - 120*	*09/18/21 06:17*	*09/20/21 12:28*	*1*
Tetrachloro-m-xylene	*87*		*30 - 124*	*09/18/21 06:17*	*09/20/21 12:28*	*1*
Tetrachloro-m-xylene	*83*		*30 - 124*	*09/18/21 06:17*	*09/20/21 12:28*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.060	mg/Kg	☼	09/17/21 08:03	09/18/21 14:34	1
PCB-1221	ND		0.31	0.060	mg/Kg	☼	09/17/21 08:03	09/18/21 14:34	1
PCB-1232	ND		0.31	0.060	mg/Kg	☼	09/17/21 08:03	09/18/21 14:34	1
PCB-1242	ND		0.31	0.060	mg/Kg	☼	09/17/21 08:03	09/18/21 14:34	1
PCB-1248	ND		0.31	0.060	mg/Kg	☼	09/17/21 08:03	09/18/21 14:34	1
PCB-1254	ND		0.31	0.14	mg/Kg	☼	09/17/21 08:03	09/18/21 14:34	1
PCB-1260	ND		0.31	0.14	mg/Kg	☼	09/17/21 08:03	09/18/21 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*60 - 154*	*09/17/21 08:03*	*09/18/21 14:34*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*09/17/21 08:03*	*09/18/21 14:34*	*1*
DCB Decachlorobiphenyl	*93*		*65 - 174*	*09/17/21 08:03*	*09/18/21 14:34*	*1*
DCB Decachlorobiphenyl	*101*		*65 - 174*	*09/17/21 08:03*	*09/18/21 14:34*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	6.9	ug/Kg	☼	09/20/21 07:12	09/21/21 22:18	1
2,4-D	ND		22	14	ug/Kg	☼	09/20/21 07:12	09/21/21 22:18	1
Silvex (2,4,5-TP)	ND		22	7.7	ug/Kg	☼	09/20/21 07:12	09/21/21 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*09/20/21 07:12*	*09/21/21 22:18*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*09/20/21 07:12*	*09/21/21 22:18*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.63	0.20	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluoropentanoic acid (PFPeA)	ND		0.25	0.049	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorohexanoic acid (PFHxA)	ND		0.25	0.028	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluoroheptanoic acid (PFHpA)	ND		0.25	0.025	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorooctanoic acid (PFOA)	ND		0.25	0.031	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorononanoic acid (PFNA)	ND		0.25	0.023	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorodecanoic acid (PFDA)	ND		0.25	0.015	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluoroundecanoic acid (PFUnA)	ND		0.25	0.025	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorododecanoic acid (PFDoA)	ND		0.25	0.026	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorotridecanoic acid (PFTriA)	ND		0.25	0.019	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.25	0.029	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-1
Date Collected: 09/15/21 12:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-4
Matrix: Solid
Percent Solids: 76.6

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		0.25	0.012	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.25	0.018	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.25	0.019	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorooctanesulfonic acid (PFOS)	**0.056**	**J I B**	0.25	0.020	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.25	0.015	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.25	0.021	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.5	0.046	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.5	0.058	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.5	0.039	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.5	0.020	ug/Kg	☼	09/20/21 15:46	09/22/21 04:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*86*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C4 PFHpA	*84*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C4 PFOA	*87*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C4 PFOS	*81*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C5 PFNA	*79*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C4 PFBA	*82*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C2 PFHxA	*83*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C2 PFDA	*80*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C2 PFUnA	*74*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C2 PFDoA	*71*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C8 FOSA	*74*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C5 PFPeA	*89*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C2 PFTeDA	*69*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
d3-NMeFOSAA	*78*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
d5-NEtFOSAA	*79*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
M2-6:2 FTS	*102*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
M2-8:2 FTS	*93*		*25 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*
13C3 PFBS	*94*		*50 - 150*	*09/20/21 15:46*	*09/22/21 04:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11700**		13.6	6.0	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Antimony	**1.5**	**J**	20.4	0.54	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Arsenic	**7.9**		2.7	0.54	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Barium	**72.4**		0.68	0.15	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Beryllium	**0.64**		0.27	0.038	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Cadmium	**0.15**	**J**	0.27	0.041	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Calcium	**90500**		67.8	4.5	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Chromium	**19.8**		0.68	0.27	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Cobalt	**12.0**		0.68	0.068	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Copper	**20.0**		1.4	0.28	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Iron	**24500**		13.6	4.7	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Lead	**17.5**		1.4	0.33	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Magnesium	**5400**		27.1	1.3	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-1
Lab Sample ID: 480-189652-4
Date Collected: 09/15/21 12:30
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 76.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	712		0.27	0.043	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Nickel	39.7		6.8	0.31	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Potassium	2780		40.7	27.1	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Selenium	1.8	J	5.4	0.54	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Silver	ND		0.81	0.27	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Sodium	147	J B	190	17.6	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Thallium	ND		8.1	0.41	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Vanadium	21.0		0.68	0.15	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1
Zinc	40.0		2.7	0.87	mg/Kg	☼	09/17/21 15:27	09/20/21 23:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.028	0.0063	mg/Kg	☼	09/24/21 14:07	09/24/21 16:52	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-189652-1	TP-3	109	100	110	98
480-189652-1 MS	TP-3	89	99	103	99
480-189652-1 MSD	TP-3	89	100	102	100
480-189652-2	TP-17	108	102	108	96
480-189652-2 MS	TP-17	87	102	102	101
480-189652-2 MSD	TP-17	86	100	100	100
480-189652-3	TP-8	107	99	107	96
480-189652-4	TP-1	104	100	107	97
LCS 480-596664/1-A	Lab Control Sample	101	102	104	97
MB 480-596664/2-A	Method Blank	104	100	104	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-189652-1	TP-3	111	100	76	87	77	118
480-189652-1 MS	TP-3	113	93	64	77	68	102
480-189652-1 MSD	TP-3	121 S1+	99	70	87	76	106
480-189652-2	TP-17	78	86	66	71	72	93
480-189652-2 MS	TP-17	110	94	74	86	83	104
480-189652-2 MSD	TP-17	102	96	74	84	76	98
480-189652-3	TP-8	89	91	73	81	77	103
480-189652-4	TP-1	87	79	66	68	69	100
LCS 480-596766/2-A	Lab Control Sample	117	98	76	88	80	109
LCS 480-597014/2-A	Lab Control Sample	100	86	68	83	71	96
MB 480-596766/1-A	Method Blank	111	98	76	84	82	109
MB 480-597014/1-A	Method Blank	91	86	75	81	77	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-189652-1	TP-3	76	85	77	73

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-189652-1 MS	TP-3	80	90	78	76
480-189652-1 MSD	TP-3	83	91	85	79
480-189652-2	TP-17	97	90	87	84
480-189652-2 MS	TP-17	96	97	98	95
480-189652-2 MSD	TP-17	103	104	98	94
480-189652-3	TP-8	97	96	90	85
480-189652-4	TP-1	97	85	87	83
LCS 480-596924/2-A	Lab Control Sample	77	86	76	75
MB 480-596924/1-A	Method Blank	84	92	80	75

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-189652-1	TP-3	97	101	93	98
480-189652-1 MS	TP-3	113	118	104	108
480-189652-1 MSD	TP-3	100	102	91	93
480-189652-2	TP-17	94	98	93	99
480-189652-2 MS	TP-17	109	115	107	114
480-189652-2 MSD	TP-17	105	110	100	106
480-189652-3	TP-8	107	110	101	109
480-189652-4	TP-1	98	105	93	101
LCS 480-596753/2-A	Lab Control Sample	113	118	106	110
MB 480-596753/1-A	Method Blank	100	106	96	99

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-189652-1	TP-3	39	33
480-189652-1 MS	TP-3	59	68
480-189652-1 MSD	TP-3	66	77
480-189652-2	TP-17	71	73
480-189652-2 MS	TP-17	61	71
480-189652-2 MSD	TP-17	62	66
480-189652-3	TP-8	64	75
480-189652-4	TP-1	66	74
LCS 480-597006/2-A	Lab Control Sample	64	82
LCS 480-597124/2-A	Lab Control Sample	64	73
MB 480-597006/1-A	Method Blank	68	67

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (28-129)	DCPAA2 (28-129)								
MB 480-597124/1-A	Method Blank	63	69								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFHxS	C4PFHA	PFOA	PFOS	PFNA	PFBA	PFHxA	PFDA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(25-150)	(50-150)	(50-150)
480-189652-1	TP-3	76	80	81	76	77	81	81	76
480-189652-1 MS	TP-3	78	85	84	76	78	84	82	78
480-189652-1 MSD	TP-3	77	84	83	79	80	80	81	77
480-189652-2	TP-17	71	78	77	72	75	77	74	77
480-189652-2 MS	TP-17	76	84	84	73	75	78	82	77
480-189652-2 MSD	TP-17	73	79	79	71	73	75	73	76
480-189652-3	TP-8	75	78	78	73	71	75	77	72
480-189652-4	TP-1	86	84	87	81	79	82	83	80
LCS 200-171565/2-A	Lab Control Sample	97	90	92	94	86	85	89	86
MB 200-171565/1-A	Method Blank	93	86	92	95	88	85	90	88

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA	PFDoA	PFOSA	PFPeA	PFTDA	d3NMFOS	d5NEFOS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(25-150)
480-189652-1	TP-3	69	70	72	84	71	66	69	89
480-189652-1 MS	TP-3	69	67	73	86	68	72	68	88
480-189652-1 MSD	TP-3	71	71	74	85	69	73	74	89
480-189652-2	TP-17	65	66	71	79	63	71	66	84
480-189652-2 MS	TP-17	70	71	72	84	66	75	73	88
480-189652-2 MSD	TP-17	68	68	71	80	66	71	67	84
480-189652-3	TP-8	69	73	71	79	71	68	70	91
480-189652-4	TP-1	74	71	74	89	69	78	79	102
LCS 200-171565/2-A	Lab Control Sample	77	72	79	91	78	80	83	125
MB 200-171565/1-A	Method Blank	75	74	83	94	77	90	89	128

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M282FTS	C3PFBS						
Lab Sample ID	Client Sample ID	(25-150)	(50-150)						
480-189652-1	TP-3	73	81						
480-189652-1 MS	TP-3	81	79						
480-189652-1 MSD	TP-3	70	78						
480-189652-2	TP-17	71	83						
480-189652-2 MS	TP-17	75	79						
480-189652-2 MSD	TP-17	73	80						
480-189652-3	TP-8	81	79						
480-189652-4	TP-1	93	94						
LCS 200-171565/2-A	Lab Control Sample	98	102						
MB 200-171565/1-A	Method Blank	104	101						

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

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

Lab Sample ID: MB 480-596664/2-A
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
2-Hexanone	ND		25	2.5	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Acetone	ND		25	4.2	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Benzene	ND		5.0	0.25	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Bromoform	ND		5.0	2.5	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Chloroform	ND		5.0	0.31	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Methyl acetate	ND		25	3.0	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Styrene	ND		5.0	0.25	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Toluene	ND		5.0	0.38	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/16/21 13:31	09/16/21 19:46	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/16/21 13:31	09/16/21 19:46	1

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

Lab Sample ID: MB 480-596664/2-A
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596664

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	09/16/21 13:31	09/16/21 19:46	1
4-Bromofluorobenzene (Surr)	100		72 - 126	09/16/21 13:31	09/16/21 19:46	1
Dibromofluoromethane (Surr)	104		60 - 140	09/16/21 13:31	09/16/21 19:46	1
Toluene-d8 (Surr)	98		71 - 125	09/16/21 13:31	09/16/21 19:46	1

Lab Sample ID: LCS 480-596664/1-A
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.5		ug/Kg		99	77 - 121
1,1,2,2-Tetrachloroethane	50.0	42.1		ug/Kg		84	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.5		ug/Kg		87	60 - 140
1,1,2-Trichloroethane	50.0	44.4		ug/Kg		89	78 - 122
1,1-Dichloroethane	50.0	45.7		ug/Kg		91	73 - 126
1,1-Dichloroethene	50.0	45.8		ug/Kg		92	59 - 125
1,2,4-Trichlorobenzene	50.0	44.9		ug/Kg		90	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.3		ug/Kg		91	63 - 124
1,2-Dibromoethane	50.0	45.5		ug/Kg		91	78 - 120
1,2-Dichlorobenzene	50.0	46.4		ug/Kg		93	75 - 120
1,2-Dichloroethane	50.0	50.6		ug/Kg		101	77 - 122
1,2-Dichloropropane	50.0	45.3		ug/Kg		91	75 - 124
1,3-Dichlorobenzene	50.0	46.5		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	46.2		ug/Kg		92	73 - 120
2-Butanone (MEK)	250	228		ug/Kg		91	70 - 134
2-Hexanone	250	218		ug/Kg		87	59 - 130
4-Methyl-2-pentanone (MIBK)	250	209		ug/Kg		84	65 - 133
Acetone	250	265		ug/Kg		106	61 - 137
Benzene	50.0	46.1		ug/Kg		92	79 - 127
Bromodichloromethane	50.0	49.7		ug/Kg		99	80 - 122
Bromoform	50.0	48.9		ug/Kg		98	68 - 126
Bromomethane	50.0	50.8		ug/Kg		102	37 - 149
Carbon disulfide	50.0	42.4		ug/Kg		85	64 - 131
Carbon tetrachloride	50.0	50.9		ug/Kg		102	75 - 135
Chlorobenzene	50.0	46.1		ug/Kg		92	76 - 124
Chloroethane	50.0	48.7		ug/Kg		97	69 - 135
Chloroform	50.0	47.8		ug/Kg		96	80 - 120
Chloromethane	50.0	45.2		ug/Kg		90	63 - 127
cis-1,2-Dichloroethene	50.0	46.8		ug/Kg		94	81 - 120
cis-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	80 - 120
Cyclohexane	50.0	41.0		ug/Kg		82	65 - 120
Dibromochloromethane	50.0	48.4		ug/Kg		97	76 - 125
Dichlorodifluoromethane	50.0	51.7		ug/Kg		103	57 - 142
Ethylbenzene	50.0	45.6		ug/Kg		91	80 - 120
Isopropylbenzene	50.0	45.2		ug/Kg		90	72 - 120
Methyl acetate	100	85.4		ug/Kg		85	55 - 136
Methyl tert-butyl ether	50.0	47.8		ug/Kg		96	63 - 125
Methylcyclohexane	50.0	46.0		ug/Kg		92	60 - 140

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

Lab Sample ID: LCS 480-596664/1-A
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			50.0	45.8		ug/Kg		92	61 - 127		
Styrene			50.0	46.2		ug/Kg		92	80 - 120		
Tetrachloroethene			50.0	46.8		ug/Kg		94	74 - 122		
Toluene			50.0	44.9		ug/Kg		90	74 - 128		
trans-1,2-Dichloroethene			50.0	45.4		ug/Kg		91	78 - 126		
trans-1,3-Dichloropropene			50.0	46.1		ug/Kg		92	73 - 123		
Trichloroethene			50.0	47.9		ug/Kg		96	77 - 129		
Trichlorofluoromethane			50.0	54.6		ug/Kg		109	65 - 146		
Vinyl chloride			50.0	49.0		ug/Kg		98	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*
Dibromofluoromethane (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*97*		*71 - 125*

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND		44.2	37.0		ug/Kg	☼	84	77 - 121		
1,1,2,2-Tetrachloroethane	ND	F1	44.2	24.8	F1	ug/Kg	☼	56	80 - 120		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	44.2	26.2	F1	ug/Kg	☼	59	60 - 140		
1,1,2-Trichloroethane	ND	F1	44.2	28.5	F1	ug/Kg	☼	65	78 - 122		
1,1-Dichloroethane	ND		44.2	35.0		ug/Kg	☼	79	73 - 126		
1,1-Dichloroethene	ND		44.2	33.6		ug/Kg	☼	76	59 - 125		
1,2,4-Trichlorobenzene	ND	F1	44.2	24.8	F1	ug/Kg	☼	56	64 - 120		
1,2-Dibromo-3-Chloropropane	ND	F1	44.2	23.8	F1	ug/Kg	☼	54	63 - 124		
1,2-Dibromoethane	ND	F1	44.2	27.1	F1	ug/Kg	☼	61	78 - 120		
1,2-Dichlorobenzene	ND	F1	44.2	30.5	F1	ug/Kg	☼	69	75 - 120		
1,2-Dichloroethane	ND	F1	44.2	33.2	F1	ug/Kg	☼	75	77 - 122		
1,2-Dichloropropane	ND		44.2	33.1		ug/Kg	☼	75	75 - 124		
1,3-Dichlorobenzene	ND	F1	44.2	31.7	F1	ug/Kg	☼	72	74 - 120		
1,4-Dichlorobenzene	ND	F1	44.2	31.2	F1	ug/Kg	☼	71	73 - 120		
2-Butanone (MEK)	ND	F1	221	122	F1	ug/Kg	☼	55	70 - 134		
2-Hexanone	ND	F1	221	115	F1	ug/Kg	☼	52	59 - 130		
4-Methyl-2-pentanone (MIBK)	ND	F1	221	115	F1	ug/Kg	☼	52	65 - 133		
Acetone	ND		221	139		ug/Kg	☼	63	61 - 137		
Benzene	ND		44.2	34.9		ug/Kg	☼	79	79 - 127		
Bromodichloromethane	ND	F1	44.2	34.8	F1	ug/Kg	☼	79	80 - 122		
Bromoform	ND	F1	44.2	28.4	F1	ug/Kg	☼	64	68 - 126		
Bromomethane	ND		44.2	40.7		ug/Kg	☼	92	37 - 149		
Carbon disulfide	ND		44.2	29.4		ug/Kg	☼	67	64 - 131		
Carbon tetrachloride	ND		44.2	38.3		ug/Kg	☼	87	75 - 135		
Chlorobenzene	ND	F1	44.2	33.0	F1	ug/Kg	☼	75	76 - 124		
Chloroethane	ND		44.2	39.3		ug/Kg	☼	89	69 - 135		
Chloroform	ND		44.2	35.8		ug/Kg	☼	81	80 - 120		

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

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		44.2	35.7		ug/Kg	☼	81	63 - 127
cis-1,2-Dichloroethene	ND	F1	44.2	34.7	F1	ug/Kg	☼	78	80 - 120
cis-1,3-Dichloropropene	ND	F1	44.2	31.4	F1	ug/Kg	☼	71	80 - 120
Cyclohexane	ND		44.2	29.7		ug/Kg	☼	67	65 - 120
Dibromochloromethane	ND	F1	44.2	30.8	F1	ug/Kg	☼	70	76 - 125
Dichlorodifluoromethane	ND		44.2	37.3		ug/Kg	☼	84	57 - 142
Ethylbenzene	ND	F1	44.2	33.4	F1	ug/Kg	☼	75	80 - 120
Isopropylbenzene	ND		44.2	33.6		ug/Kg	☼	76	72 - 120
Methyl acetate	ND		88.5	50.2		ug/Kg	☼	57	55 - 136
Methyl tert-butyl ether	ND		44.2	28.3		ug/Kg	☼	64	63 - 125
Methylcyclohexane	ND		44.2	31.7		ug/Kg	☼	72	60 - 140
Methylene Chloride	ND		44.2	33.4		ug/Kg	☼	76	61 - 127
Styrene	ND	F1	44.2	32.6	F1	ug/Kg	☼	74	80 - 120
Tetrachloroethene	ND		44.2	33.7		ug/Kg	☼	76	74 - 122
Toluene	ND		44.2	33.7		ug/Kg	☼	76	74 - 128
trans-1,2-Dichloroethene	ND		44.2	34.8		ug/Kg	☼	79	78 - 126
trans-1,3-Dichloropropene	ND	F1	44.2	29.0	F1	ug/Kg	☼	65	73 - 123
Trichloroethene	ND		44.2	35.8		ug/Kg	☼	81	77 - 129
Trichlorofluoromethane	ND		44.2	44.2		ug/Kg	☼	100	65 - 146
Vinyl chloride	ND		44.2	38.5		ug/Kg	☼	87	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*99*		*71 - 125*

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		50.7	43.6		ug/Kg	☼	86	77 - 121	16	30
1,1,2,2-Tetrachloroethane	ND	F1	50.7	30.0	F1	ug/Kg	☼	59	80 - 120	19	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	50.7	38.9	F2	ug/Kg	☼	77	60 - 140	39	30
1,1,2-Trichloroethane	ND	F1	50.7	35.4	F1	ug/Kg	☼	70	78 - 122	21	30
1,1-Dichloroethane	ND		50.7	40.2		ug/Kg	☼	79	73 - 126	14	30
1,1-Dichloroethene	ND		50.7	39.2		ug/Kg	☼	77	59 - 125	15	30
1,2,4-Trichlorobenzene	ND	F1	50.7	29.4	F1	ug/Kg	☼	58	64 - 120	17	30
1,2-Dibromo-3-Chloropropane	ND	F1	50.7	29.3	F1	ug/Kg	☼	58	63 - 124	21	30
1,2-Dibromoethane	ND	F1	50.7	33.8	F1	ug/Kg	☼	67	78 - 120	22	30
1,2-Dichlorobenzene	ND	F1	50.7	35.7	F1	ug/Kg	☼	70	75 - 120	16	30
1,2-Dichloroethane	ND	F1	50.7	39.6		ug/Kg	☼	78	77 - 122	18	30
1,2-Dichloropropane	ND		50.7	39.0		ug/Kg	☼	77	75 - 124	16	30
1,3-Dichlorobenzene	ND	F1	50.7	36.6	F1	ug/Kg	☼	72	74 - 120	15	30
1,4-Dichlorobenzene	ND	F1	50.7	36.0	F1	ug/Kg	☼	71	73 - 120	14	30
2-Butanone (MEK)	ND	F1	253	146	F1	ug/Kg	☼	58	70 - 134	18	30
2-Hexanone	ND	F1	253	143	F1	ug/Kg	☼	56	59 - 130	21	30

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

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND	F1	253	141	F1	ug/Kg	☼	56	65 - 133	20	30
Acetone	ND		253	169		ug/Kg	☼	67	61 - 137	19	30
Benzene	ND		50.7	41.0		ug/Kg	☼	81	79 - 127	16	30
Bromodichloromethane	ND	F1	50.7	41.6		ug/Kg	☼	82	80 - 122	18	30
Bromoform	ND	F1	50.7	35.0		ug/Kg	☼	69	68 - 126	21	30
Bromomethane	ND		50.7	49.6		ug/Kg	☼	98	37 - 149	20	30
Carbon disulfide	ND		50.7	35.8		ug/Kg	☼	71	64 - 131	20	30
Carbon tetrachloride	ND		50.7	44.1		ug/Kg	☼	87	75 - 135	14	30
Chlorobenzene	ND	F1	50.7	39.8		ug/Kg	☼	79	76 - 124	19	30
Chloroethane	ND		50.7	46.3		ug/Kg	☼	91	69 - 135	16	30
Chloroform	ND		50.7	41.5		ug/Kg	☼	82	80 - 120	15	30
Chloromethane	ND		50.7	41.7		ug/Kg	☼	82	63 - 127	15	30
cis-1,2-Dichloroethene	ND	F1	50.7	41.4		ug/Kg	☼	82	80 - 120	18	30
cis-1,3-Dichloropropene	ND	F1	50.7	37.3	F1	ug/Kg	☼	74	80 - 120	17	30
Cyclohexane	ND		50.7	35.1		ug/Kg	☼	69	65 - 120	17	30
Dibromochloromethane	ND	F1	50.7	37.7	F1	ug/Kg	☼	74	76 - 125	20	30
Dichlorodifluoromethane	ND		50.7	45.0		ug/Kg	☼	89	57 - 142	19	30
Ethylbenzene	ND	F1	50.7	39.9	F1	ug/Kg	☼	79	80 - 120	18	30
Isopropylbenzene	ND		50.7	38.8		ug/Kg	☼	77	72 - 120	14	30
Methyl acetate	ND		101	60.5		ug/Kg	☼	60	55 - 136	19	30
Methyl tert-butyl ether	ND		50.7	35.5		ug/Kg	☼	70	63 - 125	22	30
Methylcyclohexane	ND		50.7	37.2		ug/Kg	☼	73	60 - 140	16	30
Methylene Chloride	ND		50.7	40.3		ug/Kg	☼	80	61 - 127	19	30
Styrene	ND	F1	50.7	39.7	F1	ug/Kg	☼	78	80 - 120	20	30
Tetrachloroethene	ND		50.7	39.7		ug/Kg	☼	78	74 - 122	17	30
Toluene	ND		50.7	40.3		ug/Kg	☼	80	74 - 128	18	30
trans-1,2-Dichloroethene	ND		50.7	39.9		ug/Kg	☼	79	78 - 126	14	30
trans-1,3-Dichloropropene	ND	F1	50.7	35.1	F1	ug/Kg	☼	69	73 - 123	19	30
Trichloroethene	ND		50.7	41.6		ug/Kg	☼	82	77 - 129	15	30
Trichlorofluoromethane	ND		50.7	52.3		ug/Kg	☼	103	65 - 146	17	30
Vinyl chloride	ND		50.7	46.5		ug/Kg	☼	92	61 - 133	19	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		48.6	40.1		ug/Kg	☼	83	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1	48.6	26.7	F1	ug/Kg	☼	55	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.6	30.5		ug/Kg	☼	63	60 - 140
1,1,2-Trichloroethane	ND	F1	48.6	31.3	F1	ug/Kg	☼	64	78 - 122
1,1-Dichloroethane	ND		48.6	36.5		ug/Kg	☼	75	73 - 126

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

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

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		48.6	35.9		ug/Kg	☼	74	59 - 125
1,2,4-Trichlorobenzene	ND	F1	48.6	24.7	F1	ug/Kg	☼	51	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	48.6	24.7	F1	ug/Kg	☼	51	63 - 124
1,2-Dibromoethane	ND	F1	48.6	30.4	F1	ug/Kg	☼	63	78 - 120
1,2-Dichlorobenzene	ND	F1	48.6	31.8	F1	ug/Kg	☼	66	75 - 120
1,2-Dichloroethane	ND	F1	48.6	35.0	F1	ug/Kg	☼	72	77 - 122
1,2-Dichloropropane	ND	F1	48.6	35.5	F1	ug/Kg	☼	73	75 - 124
1,3-Dichlorobenzene	ND	F1	48.6	33.2	F1	ug/Kg	☼	68	74 - 120
1,4-Dichlorobenzene	ND	F1	48.6	32.3	F1	ug/Kg	☼	67	73 - 120
2-Butanone (MEK)	ND	F1	243	126	F1	ug/Kg	☼	52	70 - 134
2-Hexanone	ND	F1	243	122	F1	ug/Kg	☼	50	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1	243	123	F1	ug/Kg	☼	51	65 - 133
Acetone	ND		243	147		ug/Kg	☼	61	61 - 137
Benzene	ND	F1	48.6	37.4	F1	ug/Kg	☼	77	79 - 127
Bromodichloromethane	ND	F1	48.6	37.3	F1	ug/Kg	☼	77	80 - 122
Bromoform	ND	F1	48.6	31.2	F1	ug/Kg	☼	64	68 - 126
Bromomethane	ND		48.6	45.8		ug/Kg	☼	94	37 - 149
Carbon disulfide	ND	F1	48.6	31.5		ug/Kg	☼	65	64 - 131
Carbon tetrachloride	ND		48.6	40.0		ug/Kg	☼	82	75 - 135
Chlorobenzene	ND	F1	48.6	35.6	F1	ug/Kg	☼	73	76 - 124
Chloroethane	ND		48.6	41.4		ug/Kg	☼	85	69 - 135
Chloroform	ND	F1	48.6	38.2	F1	ug/Kg	☼	79	80 - 120
Chloromethane	ND		48.6	39.1		ug/Kg	☼	80	63 - 127
cis-1,2-Dichloroethene	ND	F1	48.6	36.8	F1	ug/Kg	☼	76	80 - 120
cis-1,3-Dichloropropene	ND	F1	48.6	33.2	F1	ug/Kg	☼	68	80 - 120
Cyclohexane	ND		48.6	31.7		ug/Kg	☼	65	65 - 120
Dibromochloromethane	ND	F1	48.6	34.0	F1	ug/Kg	☼	70	76 - 125
Dichlorodifluoromethane	ND		48.6	40.6		ug/Kg	☼	84	57 - 142
Ethylbenzene	ND	F1	48.6	36.3	F1	ug/Kg	☼	75	80 - 120
Isopropylbenzene	ND		48.6	35.8		ug/Kg	☼	74	72 - 120
Methyl acetate	ND	F1	97.1	50.2	F1	ug/Kg	☼	52	55 - 136
Methyl tert-butyl ether	ND		48.6	30.5		ug/Kg	☼	63	63 - 125
Methylcyclohexane	ND		48.6	33.5		ug/Kg	☼	69	60 - 140
Methylene Chloride	ND		48.6	35.1		ug/Kg	☼	72	61 - 127
Styrene	ND	F1	48.6	35.0	F1	ug/Kg	☼	72	80 - 120
Tetrachloroethene	ND		48.6	36.9		ug/Kg	☼	76	74 - 122
Toluene	ND		48.6	36.5		ug/Kg	☼	75	74 - 128
trans-1,2-Dichloroethene	ND	F1	48.6	36.1	F1	ug/Kg	☼	74	78 - 126
trans-1,3-Dichloropropene	ND	F1	48.6	31.8	F1	ug/Kg	☼	66	73 - 123
Trichloroethene	ND		48.6	37.3		ug/Kg	☼	77	77 - 129
Trichlorofluoromethane	ND		48.6	46.9		ug/Kg	☼	97	65 - 146
Vinyl chloride	ND		48.6	42.2		ug/Kg	☼	87	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*101*		*71 - 125*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

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

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		42.3	34.6		ug/Kg	☼	82	77 - 121	15	30
1,1,2,2-Tetrachloroethane	ND	F1	42.3	24.5	F1	ug/Kg	☼	58	80 - 120	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		42.3	29.6		ug/Kg	☼	70	60 - 140	3	30
1,1,2-Trichloroethane	ND	F1	42.3	28.4	F1	ug/Kg	☼	67	78 - 122	10	30
1,1-Dichloroethane	ND		42.3	32.5		ug/Kg	☼	77	73 - 126	12	30
1,1-Dichloroethene	ND		42.3	30.2		ug/Kg	☼	72	59 - 125	17	30
1,2,4-Trichlorobenzene	ND	F1	42.3	22.2	F1	ug/Kg	☼	53	64 - 120	11	30
1,2-Dibromo-3-Chloropropane	ND	F1	42.3	24.0	F1	ug/Kg	☼	57	63 - 124	3	30
1,2-Dibromoethane	ND	F1	42.3	27.7	F1	ug/Kg	☼	66	78 - 120	9	30
1,2-Dichlorobenzene	ND	F1	42.3	28.2	F1	ug/Kg	☼	67	75 - 120	12	30
1,2-Dichloroethane	ND	F1	42.3	31.8	F1	ug/Kg	☼	75	77 - 122	10	30
1,2-Dichloropropane	ND	F1	42.3	31.9		ug/Kg	☼	75	75 - 124	11	30
1,3-Dichlorobenzene	ND	F1	42.3	28.8	F1	ug/Kg	☼	68	74 - 120	14	30
1,4-Dichlorobenzene	ND	F1	42.3	28.7	F1	ug/Kg	☼	68	73 - 120	12	30
2-Butanone (MEK)	ND	F1	211	118	F1	ug/Kg	☼	56	70 - 134	6	30
2-Hexanone	ND	F1	211	117	F1	ug/Kg	☼	55	59 - 130	4	30
4-Methyl-2-pentanone (MIBK)	ND	F1	211	117	F1	ug/Kg	☼	55	65 - 133	5	30
Acetone	ND		211	132		ug/Kg	☼	63	61 - 137	11	30
Benzene	ND	F1	42.3	32.7	F1	ug/Kg	☼	77	79 - 127	13	30
Bromodichloromethane	ND	F1	42.3	33.2	F1	ug/Kg	☼	79	80 - 122	12	30
Bromoform	ND	F1	42.3	28.6		ug/Kg	☼	68	68 - 126	9	30
Bromomethane	ND		42.3	38.9		ug/Kg	☼	92	37 - 149	16	30
Carbon disulfide	ND	F1	42.3	26.7	F1	ug/Kg	☼	63	64 - 131	16	30
Carbon tetrachloride	ND		42.3	35.3		ug/Kg	☼	84	75 - 135	12	30
Chlorobenzene	ND	F1	42.3	32.1		ug/Kg	☼	76	76 - 124	10	30
Chloroethane	ND		42.3	36.4		ug/Kg	☼	86	69 - 135	13	30
Chloroform	ND	F1	42.3	33.5	F1	ug/Kg	☼	79	80 - 120	13	30
Chloromethane	ND		42.3	34.5		ug/Kg	☼	82	63 - 127	12	30
cis-1,2-Dichloroethene	ND	F1	42.3	32.3	F1	ug/Kg	☼	76	80 - 120	13	30
cis-1,3-Dichloropropene	ND	F1	42.3	30.0	F1	ug/Kg	☼	71	80 - 120	10	30
Cyclohexane	ND		42.3	27.7		ug/Kg	☼	66	65 - 120	13	30
Dibromochloromethane	ND	F1	42.3	30.9	F1	ug/Kg	☼	73	76 - 125	9	30
Dichlorodifluoromethane	ND		42.3	35.4		ug/Kg	☼	84	57 - 142	14	30
Ethylbenzene	ND	F1	42.3	32.4	F1	ug/Kg	☼	77	80 - 120	11	30
Isopropylbenzene	ND		42.3	32.0		ug/Kg	☼	76	72 - 120	11	30
Methyl acetate	ND	F1	84.5	48.1		ug/Kg	☼	57	55 - 136	4	30
Methyl tert-butyl ether	ND		42.3	28.9		ug/Kg	☼	68	63 - 125	5	30
Methylcyclohexane	ND		42.3	29.8		ug/Kg	☼	70	60 - 140	12	30
Methylene Chloride	ND		42.3	31.7		ug/Kg	☼	75	61 - 127	10	30
Styrene	ND	F1	42.3	31.7	F1	ug/Kg	☼	75	80 - 120	10	30
Tetrachloroethene	ND		42.3	32.7		ug/Kg	☼	77	74 - 122	12	30
Toluene	ND		42.3	32.9		ug/Kg	☼	78	74 - 128	10	30
trans-1,2-Dichloroethene	ND	F1	42.3	31.6	F1	ug/Kg	☼	75	78 - 126	13	30
trans-1,3-Dichloropropene	ND	F1	42.3	28.8	F1	ug/Kg	☼	68	73 - 123	10	30
Trichloroethene	ND		42.3	32.4		ug/Kg	☼	77	77 - 129	14	30
Trichlorofluoromethane	ND		42.3	40.9		ug/Kg	☼	97	65 - 146	14	30
Vinyl chloride	ND		42.3	36.8		ug/Kg	☼	87	61 - 133	14	30

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

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596664

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Dibromofluoromethane (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-596766/1-A
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		99	54	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2-Chlorophenol	ND		330	31	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2-Methylphenol	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2-Nitroaniline	ND		330	25	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
2-Nitrophenol	ND		170	48	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
3-Nitroaniline	ND		330	47	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4-Chloroaniline	ND		170	42	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4-Methylphenol	ND		330	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4-Nitroaniline	ND		330	88	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
4-Nitrophenol	ND		330	120	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Acenaphthene	ND		170	25	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Acenaphthylene	ND		170	22	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Acetophenone	ND		170	23	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Anthracene	ND		170	42	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Atrazine	ND		170	58	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Benzaldehyde	ND		170	130	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Biphenyl	ND		170	25	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/17/21 08:28	09/18/21 14:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-596766/1-A
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Caprolactam	ND		170	50	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Carbazole	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Chrysene	ND		170	38	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Dibenzofuran	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Diethyl phthalate	ND		170	22	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Fluoranthene	ND		170	18	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Fluorene	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Hexachloroethane	ND		170	22	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Isophorone	ND		170	36	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Naphthalene	ND		170	22	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Nitrobenzene	ND		170	19	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Pentachlorophenol	ND		330	170	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Phenanthrene	ND		170	25	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Phenol	ND		170	26	ug/Kg		09/17/21 08:28	09/18/21 14:43	1
Pyrene	ND		170	20	ug/Kg		09/17/21 08:28	09/18/21 14:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*54 - 120*	*09/17/21 08:28*	*09/18/21 14:43*	*1*
2-Fluorobiphenyl	*98*		*60 - 120*	*09/17/21 08:28*	*09/18/21 14:43*	*1*
2-Fluorophenol	*76*		*52 - 120*	*09/17/21 08:28*	*09/18/21 14:43*	*1*
Nitrobenzene-d5	*84*		*53 - 120*	*09/17/21 08:28*	*09/18/21 14:43*	*1*
Phenol-d5	*82*		*54 - 120*	*09/17/21 08:28*	*09/18/21 14:43*	*1*
p-Terphenyl-d14	*109*		*79 - 130*	*09/17/21 08:28*	*09/18/21 14:43*	*1*

Lab Sample ID: LCS 480-596766/2-A
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1650	774		ug/Kg		47	23 - 120
2,4,5-Trichlorophenol	1650	1690		ug/Kg		102	59 - 126
2,4,6-Trichlorophenol	1650	1710		ug/Kg		104	59 - 123
2,4-Dichlorophenol	1650	1690		ug/Kg		102	61 - 120
2,4-Dimethylphenol	1650	1690		ug/Kg		102	59 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-596766/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 596941
Prep Batch: 596766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	3290	3460		ug/Kg		105	41 - 146
2,4-Dinitrotoluene	1650	1710		ug/Kg		104	63 - 120
2,6-Dinitrotoluene	1650	1660		ug/Kg		101	66 - 120
2-Chloronaphthalene	1650	1520		ug/Kg		93	57 - 120
2-Chlorophenol	1650	1420		ug/Kg		86	53 - 120
2-Methylnaphthalene	1650	1590		ug/Kg		96	59 - 120
2-Methylphenol	1650	1420		ug/Kg		86	54 - 120
2-Nitroaniline	1650	1540		ug/Kg		93	61 - 120
2-Nitrophenol	1650	1530		ug/Kg		93	56 - 120
3,3'-Dichlorobenzidine	3290	3070		ug/Kg		93	54 - 120
3-Nitroaniline	1650	1430		ug/Kg		87	48 - 120
4,6-Dinitro-2-methylphenol	3290	3540		ug/Kg		107	49 - 122
4-Bromophenyl phenyl ether	1650	1880		ug/Kg		114	58 - 120
4-Chloro-3-methylphenol	1650	1690		ug/Kg		103	61 - 120
4-Chloroaniline	1650	1440		ug/Kg		88	38 - 120
4-Chlorophenyl phenyl ether	1650	1770		ug/Kg		107	63 - 124
4-Methylphenol	1650	1420		ug/Kg		86	55 - 120
4-Nitroaniline	1650	1580		ug/Kg		96	56 - 120
4-Nitrophenol	3290	4300		ug/Kg		131	43 - 147
Acenaphthene	1650	1570		ug/Kg		95	62 - 120
Acenaphthylene	1650	1640		ug/Kg		99	58 - 121
Acetophenone	1650	1490		ug/Kg		90	54 - 120
Anthracene	1650	1740		ug/Kg		106	62 - 120
Atrazine	3290	3610		ug/Kg		110	60 - 127
Benzaldehyde	3290	2520		ug/Kg		77	10 - 150
Benzo[a]anthracene	1650	1800		ug/Kg		109	65 - 120
Benzo[a]pyrene	1650	1770		ug/Kg		107	64 - 120
Benzo[b]fluoranthene	1650	1850		ug/Kg		112	64 - 120
Benzo[g,h,i]perylene	1650	1700		ug/Kg		103	45 - 145
Benzo[k]fluoranthene	1650	1790		ug/Kg		108	65 - 120
Biphenyl	1650	1530		ug/Kg		93	59 - 120
bis (2-chloroisopropyl) ether	1650	964		ug/Kg		58	44 - 120
Bis(2-chloroethoxy)methane	1650	1270		ug/Kg		77	55 - 120
Bis(2-chloroethyl)ether	1650	1170		ug/Kg		71	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1620		ug/Kg		98	61 - 133
Butyl benzyl phthalate	1650	1590		ug/Kg		97	61 - 129
Caprolactam	3290	2950		ug/Kg		89	47 - 120
Carbazole	1650	1760		ug/Kg		107	65 - 120
Chrysene	1650	1770		ug/Kg		107	64 - 120
Dibenz(a,h)anthracene	1650	1910		ug/Kg		116	54 - 132
Dibenzofuran	1650	1660		ug/Kg		101	63 - 120
Diethyl phthalate	1650	1740		ug/Kg		105	66 - 120
Dimethyl phthalate	1650	1690		ug/Kg		103	65 - 124
Di-n-butyl phthalate	1650	1700		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1650	1540		ug/Kg		93	57 - 133
Fluoranthene	1650	1770		ug/Kg		107	62 - 120
Fluorene	1650	1650		ug/Kg		100	63 - 120
Hexachlorobenzene	1650	1880		ug/Kg		114	60 - 120
Hexachlorobutadiene	1650	1750		ug/Kg		106	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-596766/2-A
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1650	1550		ug/Kg		94	47 - 120
Hexachloroethane	1650	1400		ug/Kg		85	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1710		ug/Kg		104	56 - 134
Isophorone	1650	1420		ug/Kg		86	56 - 120
Naphthalene	1650	1430		ug/Kg		87	55 - 120
Nitrobenzene	1650	1390		ug/Kg		84	54 - 120
N-Nitrosodi-n-propylamine	1650	1350		ug/Kg		82	52 - 120
Pentachlorophenol	3290	3660		ug/Kg		111	51 - 120
Phenanthrene	1650	1780		ug/Kg		108	60 - 120
Phenol	1650	1190		ug/Kg		72	53 - 120
Pyrene	1650	1720		ug/Kg		105	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*117*		*54 - 120*
2-Fluorobiphenyl	*98*		*60 - 120*
2-Fluorophenol	*76*		*52 - 120*
Nitrobenzene-d5	*88*		*53 - 120*
Phenol-d5	*80*		*54 - 120*
p-Terphenyl-d14	*109*		*79 - 130*

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		1870	746		ug/Kg	☼	40	13 - 120
2,4,5-Trichlorophenol	ND		1870	1790		ug/Kg	☼	96	46 - 120
2,4,6-Trichlorophenol	ND		1870	1810		ug/Kg	☼	97	41 - 123
2,4-Dichlorophenol	ND		1870	1670		ug/Kg	☼	89	45 - 120
2,4-Dimethylphenol	ND		1870	1660		ug/Kg	☼	89	52 - 120
2,4-Dinitrophenol	ND		3730	3050		ug/Kg	☼	82	41 - 146
2,4-Dinitrotoluene	ND		1870	1740		ug/Kg	☼	93	63 - 125
2,6-Dinitrotoluene	ND		1870	1690		ug/Kg	☼	91	66 - 120
2-Chloronaphthalene	ND		1870	1670		ug/Kg	☼	90	57 - 120
2-Chlorophenol	ND		1870	1340		ug/Kg	☼	72	43 - 120
2-Methylnaphthalene	ND		1870	1630		ug/Kg	☼	87	55 - 120
2-Methylphenol	ND		1870	1330		ug/Kg	☼	71	48 - 120
2-Nitroaniline	ND		1870	1550		ug/Kg	☼	83	61 - 120
2-Nitrophenol	ND		1870	1580		ug/Kg	☼	85	37 - 120
3,3'-Dichlorobenzidine	ND		3730	3110		ug/Kg	☼	83	37 - 126
3-Nitroaniline	ND		1870	1410		ug/Kg	☼	76	48 - 120
4,6-Dinitro-2-methylphenol	ND		3730	3640		ug/Kg	☼	98	23 - 149
4-Bromophenyl phenyl ether	ND		1870	1910		ug/Kg	☼	102	58 - 120
4-Chloro-3-methylphenol	ND		1870	1610		ug/Kg	☼	86	49 - 125
4-Chloroaniline	ND		1870	1400		ug/Kg	☼	75	38 - 120
4-Chlorophenyl phenyl ether	ND		1870	1820		ug/Kg	☼	97	63 - 124
4-Methylphenol	ND		1870	1340		ug/Kg	☼	72	50 - 120
4-Nitroaniline	ND		1870	1500		ug/Kg	☼	80	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	ND		3730	3870		ug/Kg	☼	104	31 - 147
Acenaphthene	ND		1870	1630		ug/Kg	☼	88	60 - 120
Acenaphthylene	ND		1870	1740		ug/Kg	☼	93	58 - 121
Acetophenone	ND		1870	1360		ug/Kg	☼	73	47 - 120
Anthracene	ND		1870	1770		ug/Kg	☼	95	62 - 120
Atrazine	ND		3730	3380		ug/Kg	☼	90	60 - 150
Benzaldehyde	ND	F2	3730	2020		ug/Kg	☼	54	10 - 150
Benzo[a]anthracene	ND		1870	1780		ug/Kg	☼	95	65 - 120
Benzo[a]pyrene	ND		1870	1820		ug/Kg	☼	98	64 - 120
Benzo[b]fluoranthene	ND		1870	1810		ug/Kg	☼	97	10 - 150
Benzo[g,h,i]perylene	ND		1870	1830		ug/Kg	☼	98	45 - 145
Benzo[k]fluoranthene	ND		1870	1930		ug/Kg	☼	104	23 - 150
Biphenyl	ND		1870	1660		ug/Kg	☼	89	58 - 120
bis (2-chloroisopropyl) ether	ND		1870	944		ug/Kg	☼	51	31 - 120
Bis(2-chloroethoxy)methane	ND		1870	1290		ug/Kg	☼	69	52 - 120
Bis(2-chloroethyl)ether	ND		1870	1100		ug/Kg	☼	59	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1870	1590		ug/Kg	☼	85	61 - 133
Butyl benzyl phthalate	ND		1870	1640		ug/Kg	☼	88	61 - 120
Caprolactam	ND		3730	2760		ug/Kg	☼	74	37 - 133
Carbazole	ND		1870	1720		ug/Kg	☼	92	59 - 120
Chrysene	ND		1870	1820		ug/Kg	☼	98	64 - 120
Dibenz(a,h)anthracene	ND		1870	1960		ug/Kg	☼	105	54 - 132
Dibenzofuran	ND		1870	1770		ug/Kg	☼	95	62 - 120
Diethyl phthalate	ND		1870	1720		ug/Kg	☼	92	66 - 120
Dimethyl phthalate	ND		1870	1740		ug/Kg	☼	93	65 - 124
Di-n-butyl phthalate	ND		1870	1690		ug/Kg	☼	90	58 - 130
Di-n-octyl phthalate	ND		1870	1480		ug/Kg	☼	79	57 - 133
Fluoranthene	ND		1870	1720		ug/Kg	☼	92	62 - 120
Fluorene	ND		1870	1740		ug/Kg	☼	93	63 - 120
Hexachlorobenzene	ND		1870	1910		ug/Kg	☼	102	60 - 120
Hexachlorobutadiene	ND		1870	1820		ug/Kg	☼	97	45 - 120
Hexachlorocyclopentadiene	ND		1870	1670		ug/Kg	☼	89	31 - 120
Hexachloroethane	ND		1870	1310		ug/Kg	☼	70	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1870	1780		ug/Kg	☼	95	56 - 134
Isophorone	ND		1870	1430		ug/Kg	☼	76	56 - 120
Naphthalene	ND		1870	1460		ug/Kg	☼	78	46 - 120
Nitrobenzene	ND		1870	1460		ug/Kg	☼	78	49 - 120
N-Nitrosodi-n-propylamine	ND		1870	1300		ug/Kg	☼	70	46 - 120
Pentachlorophenol	ND		3730	3390		ug/Kg	☼	91	25 - 136
Phenanthrene	ND		1870	1810		ug/Kg	☼	97	60 - 122
Phenol	ND		1870	1130		ug/Kg	☼	61	50 - 120
Pyrene	ND		1870	1810		ug/Kg	☼	97	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*113*		*54 - 120*
2-Fluorobiphenyl	*93*		*60 - 120*
2-Fluorophenol	*64*		*52 - 120*
Nitrobenzene-d5	*77*		*53 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596766

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Phenol-d5	*68*		*54 - 120*
p-Terphenyl-d14	*102*		*79 - 130*

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		1840	716		ug/Kg	☼	39	13 - 120	4	50
2,4,5-Trichlorophenol	ND		1840	1970		ug/Kg	☼	107	46 - 120	9	18
2,4,6-Trichlorophenol	ND		1840	2000		ug/Kg	☼	109	41 - 123	10	19
2,4-Dichlorophenol	ND		1840	1860		ug/Kg	☼	101	45 - 120	11	19
2,4-Dimethylphenol	ND		1840	1780		ug/Kg	☼	97	52 - 120	7	42
2,4-Dinitrophenol	ND		3670	3510		ug/Kg	☼	96	41 - 146	14	22
2,4-Dinitrotoluene	ND		1840	2030		ug/Kg	☼	110	63 - 125	15	20
2,6-Dinitrotoluene	ND		1840	1900		ug/Kg	☼	103	66 - 120	11	15
2-Chloronaphthalene	ND		1840	1750		ug/Kg	☼	95	57 - 120	4	21
2-Chlorophenol	ND		1840	1500		ug/Kg	☼	82	43 - 120	11	25
2-Methylnaphthalene	ND		1840	1740		ug/Kg	☼	95	55 - 120	7	21
2-Methylphenol	ND		1840	1480		ug/Kg	☼	81	48 - 120	11	27
2-Nitroaniline	ND		1840	1760		ug/Kg	☼	96	61 - 120	13	15
2-Nitrophenol	ND		1840	1680		ug/Kg	☼	91	37 - 120	6	18
3,3'-Dichlorobenzidine	ND		3670	3520		ug/Kg	☼	96	37 - 126	12	25
3-Nitroaniline	ND		1840	1600		ug/Kg	☼	87	48 - 120	13	19
4,6-Dinitro-2-methylphenol	ND		3670	3930		ug/Kg	☼	107	23 - 149	8	15
4-Bromophenyl phenyl ether	ND		1840	1980		ug/Kg	☼	108	58 - 120	3	15
4-Chloro-3-methylphenol	ND		1840	1880		ug/Kg	☼	102	49 - 125	16	27
4-Chloroaniline	ND		1840	1600		ug/Kg	☼	87	38 - 120	13	22
4-Chlorophenyl phenyl ether	ND		1840	1970		ug/Kg	☼	107	63 - 124	8	16
4-Methylphenol	ND		1840	1530		ug/Kg	☼	83	50 - 120	13	24
4-Nitroaniline	ND		1840	1740		ug/Kg	☼	95	47 - 120	15	24
4-Nitrophenol	ND		3670	4870		ug/Kg	☼	133	31 - 147	23	25
Acenaphthene	ND		1840	1750		ug/Kg	☼	95	60 - 120	7	35
Acenaphthylene	ND		1840	1870		ug/Kg	☼	102	58 - 121	7	18
Acetophenone	ND		1840	1480		ug/Kg	☼	81	47 - 120	9	20
Anthracene	ND		1840	1900		ug/Kg	☼	103	62 - 120	7	15
Atrazine	ND		3670	4040		ug/Kg	☼	110	60 - 150	18	20
Benzaldehyde	ND	F2	3670	2500	F2	ug/Kg	☼	68	10 - 150	21	20
Benzo[a]anthracene	ND		1840	1940		ug/Kg	☼	106	65 - 120	9	15
Benzo[a]pyrene	ND		1840	1910		ug/Kg	☼	104	64 - 120	4	15
Benzo[b]fluoranthene	ND		1840	1940		ug/Kg	☼	106	10 - 150	7	15
Benzo[g,h,i]perylene	ND		1840	1840		ug/Kg	☼	100	45 - 145	0	15
Benzo[k]fluoranthene	ND		1840	2010		ug/Kg	☼	109	23 - 150	4	22
Biphenyl	ND		1840	1760		ug/Kg	☼	96	58 - 120	6	20
bis (2-chloroisopropyl) ether	ND		1840	1010		ug/Kg	☼	55	31 - 120	6	24
Bis(2-chloroethoxy)methane	ND		1840	1460		ug/Kg	☼	79	52 - 120	12	17
Bis(2-chloroethyl)ether	ND		1840	1250		ug/Kg	☼	68	45 - 120	12	21
Bis(2-ethylhexyl) phthalate	ND		1840	1750		ug/Kg	☼	95	61 - 133	9	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 596941

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate	ND		1840	1770		ug/Kg	☼	96	61 - 120	7	16
Caprolactam	ND		3670	3200		ug/Kg	☼	87	37 - 133	15	20
Carbazole	ND		1840	1930		ug/Kg	☼	105	59 - 120	11	20
Chrysene	ND		1840	1970		ug/Kg	☼	107	64 - 120	8	15
Dibenz(a,h)anthracene	ND		1840	2070		ug/Kg	☼	113	54 - 132	5	15
Dibenzofuran	ND		1840	1890		ug/Kg	☼	103	62 - 120	7	15
Diethyl phthalate	ND		1840	1970		ug/Kg	☼	107	66 - 120	13	15
Dimethyl phthalate	ND		1840	1890		ug/Kg	☼	103	65 - 124	8	15
Di-n-butyl phthalate	ND		1840	1890		ug/Kg	☼	103	58 - 130	11	15
Di-n-octyl phthalate	ND		1840	1700		ug/Kg	☼	93	57 - 133	14	16
Fluoranthene	ND		1840	1920		ug/Kg	☼	104	62 - 120	11	15
Fluorene	ND		1840	1930		ug/Kg	☼	105	63 - 120	10	15
Hexachlorobenzene	ND		1840	2030		ug/Kg	☼	110	60 - 120	6	15
Hexachlorobutadiene	ND		1840	1900		ug/Kg	☼	104	45 - 120	5	44
Hexachlorocyclopentadiene	ND		1840	1770		ug/Kg	☼	96	31 - 120	6	49
Hexachloroethane	ND		1840	1400		ug/Kg	☼	76	21 - 120	7	46
Indeno[1,2,3-cd]pyrene	ND		1840	1850		ug/Kg	☼	101	56 - 134	4	15
Isophorone	ND		1840	1520		ug/Kg	☼	83	56 - 120	7	17
Naphthalene	ND		1840	1570		ug/Kg	☼	86	46 - 120	7	29
Nitrobenzene	ND		1840	1510		ug/Kg	☼	82	49 - 120	4	24
N-Nitrosodi-n-propylamine	ND		1840	1470		ug/Kg	☼	80	46 - 120	13	31
Pentachlorophenol	ND		3670	4020		ug/Kg	☼	110	25 - 136	17	35
Phenanthrene	ND		1840	1930		ug/Kg	☼	105	60 - 122	6	15
Phenol	ND		1840	1260		ug/Kg	☼	69	50 - 120	11	35
Pyrene	ND		1840	1880		ug/Kg	☼	103	61 - 133	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*121*	*S1+*	*54 - 120*
2-Fluorobiphenyl	*99*		*60 - 120*
2-Fluorophenol	*70*		*52 - 120*
Nitrobenzene-d5	*87*		*53 - 120*
Phenol-d5	*76*		*54 - 120*
p-Terphenyl-d14	*106*		*79 - 130*

Lab Sample ID: MB 480-597014/1-A
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		99	54	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/20/21 08:01	09/21/21 13:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-597014/1-A
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		330	31	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2-Methylphenol	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2-Nitroaniline	ND		330	25	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
2-Nitrophenol	ND		170	47	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
3-Nitroaniline	ND		330	47	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4-Chloroaniline	ND		170	42	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4-Methylphenol	ND		330	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4-Nitroaniline	ND		330	88	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
4-Nitrophenol	ND		330	120	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Acenaphthene	ND		170	25	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Acenaphthylene	ND		170	22	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Acetophenone	ND		170	23	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Anthracene	ND		170	42	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Atrazine	ND		170	58	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Benzaldehyde	ND		170	130	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Biphenyl	ND		170	25	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Caprolactam	ND		170	50	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Carbazole	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Chrysene	ND		170	38	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Dibenzofuran	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Diethyl phthalate	ND		170	22	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Fluoranthene	ND		170	18	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Fluorene	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Hexachloroethane	ND		170	22	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Isophorone	ND		170	36	ug/Kg		09/20/21 08:01	09/21/21 13:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-597014/1-A
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		170	22	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Nitrobenzene	ND		170	19	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Pentachlorophenol	ND		330	170	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Phenanthrene	ND		170	25	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Phenol	ND		170	26	ug/Kg		09/20/21 08:01	09/21/21 13:27	1
Pyrene	ND		170	20	ug/Kg		09/20/21 08:01	09/21/21 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*54 - 120*	*09/20/21 08:01*	*09/21/21 13:27*	*1*
2-Fluorobiphenyl	*86*		*60 - 120*	*09/20/21 08:01*	*09/21/21 13:27*	*1*
2-Fluorophenol	*75*		*52 - 120*	*09/20/21 08:01*	*09/21/21 13:27*	*1*
Nitrobenzene-d5	*81*		*53 - 120*	*09/20/21 08:01*	*09/21/21 13:27*	*1*
Phenol-d5	*77*		*54 - 120*	*09/20/21 08:01*	*09/21/21 13:27*	*1*
p-Terphenyl-d14	*104*		*79 - 130*	*09/20/21 08:01*	*09/21/21 13:27*	*1*

Lab Sample ID: LCS 480-597014/2-A
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1650	755		ug/Kg		46	23 - 120
2,4,5-Trichlorophenol	1650	1300		ug/Kg		79	59 - 126
2,4,6-Trichlorophenol	1650	1370		ug/Kg		83	59 - 123
2,4-Dichlorophenol	1650	1270		ug/Kg		77	61 - 120
2,4-Dimethylphenol	1650	1380		ug/Kg		83	59 - 120
2,4-Dinitrophenol	3310	2600		ug/Kg		79	41 - 146
2,4-Dinitrotoluene	1650	1300		ug/Kg		78	63 - 120
2,6-Dinitrotoluene	1650	1340		ug/Kg		81	66 - 120
2-Chloronaphthalene	1650	1380		ug/Kg		84	57 - 120
2-Chlorophenol	1650	1230		ug/Kg		75	53 - 120
2-Methylnaphthalene	1650	1310		ug/Kg		79	59 - 120
2-Methylphenol	1650	1190		ug/Kg		72	54 - 120
2-Nitroaniline	1650	1260		ug/Kg		76	61 - 120
2-Nitrophenol	1650	1380		ug/Kg		83	56 - 120
3,3'-Dichlorobenzidine	3310	2500		ug/Kg		76	54 - 120
3-Nitroaniline	1650	1070		ug/Kg		65	48 - 120
4,6-Dinitro-2-methylphenol	3310	2820		ug/Kg		85	49 - 122
4-Bromophenyl phenyl ether	1650	1500		ug/Kg		91	58 - 120
4-Chloro-3-methylphenol	1650	1260		ug/Kg		76	61 - 120
4-Chloroaniline	1650	1120		ug/Kg		68	38 - 120
4-Chlorophenyl phenyl ether	1650	1360		ug/Kg		82	63 - 124
4-Methylphenol	1650	1210		ug/Kg		73	55 - 120
4-Nitroaniline	1650	1140		ug/Kg		69	56 - 120
4-Nitrophenol	3310	2620		ug/Kg		79	43 - 147
Acenaphthene	1650	1330		ug/Kg		80	62 - 120
Acenaphthylene	1650	1430		ug/Kg		87	58 - 121

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-597014/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 597198
Prep Batch: 597014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	1650	1260		ug/Kg		76	54 - 120
Anthracene	1650	1450		ug/Kg		87	62 - 120
Atrazine	3310	2570		ug/Kg		78	60 - 127
Benzaldehyde	3310	2390		ug/Kg		72	10 - 150
Benzo[a]anthracene	1650	1440		ug/Kg		87	65 - 120
Benzo[a]pyrene	1650	1450		ug/Kg		88	64 - 120
Benzo[b]fluoranthene	1650	1570		ug/Kg		95	64 - 120
Benzo[g,h,i]perylene	1650	1330		ug/Kg		80	45 - 145
Benzo[k]fluoranthene	1650	1460		ug/Kg		88	65 - 120
Biphenyl	1650	1420		ug/Kg		86	59 - 120
bis (2-chloroisopropyl) ether	1650	999		ug/Kg		60	44 - 120
Bis(2-chloroethoxy)methane	1650	1270		ug/Kg		77	55 - 120
Bis(2-chloroethyl)ether	1650	1200		ug/Kg		73	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1470		ug/Kg		89	61 - 133
Butyl benzyl phthalate	1650	1500		ug/Kg		91	61 - 129
Caprolactam	3310	2340		ug/Kg		71	47 - 120
Carbazole	1650	1410		ug/Kg		85	65 - 120
Chrysene	1650	1430		ug/Kg		87	64 - 120
Dibenz(a,h)anthracene	1650	1390		ug/Kg		84	54 - 132
Dibenzofuran	1650	1390		ug/Kg		84	63 - 120
Diethyl phthalate	1650	1390		ug/Kg		84	66 - 120
Dimethyl phthalate	1650	1400		ug/Kg		84	65 - 124
Di-n-butyl phthalate	1650	1400		ug/Kg		85	58 - 130
Di-n-octyl phthalate	1650	1370		ug/Kg		83	57 - 133
Fluoranthene	1650	1330		ug/Kg		80	62 - 120
Fluorene	1650	1330		ug/Kg		80	63 - 120
Hexachlorobenzene	1650	1590		ug/Kg		96	60 - 120
Hexachlorobutadiene	1650	1370		ug/Kg		83	45 - 120
Hexachlorocyclopentadiene	1650	1440		ug/Kg		87	47 - 120
Hexachloroethane	1650	1270		ug/Kg		77	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1320		ug/Kg		80	56 - 134
Isophorone	1650	1340		ug/Kg		81	56 - 120
Naphthalene	1650	1260		ug/Kg		76	55 - 120
Nitrobenzene	1650	1330		ug/Kg		80	54 - 120
N-Nitrosodi-n-propylamine	1650	1240		ug/Kg		75	52 - 120
Pentachlorophenol	3310	2540		ug/Kg		77	51 - 120
Phenanthrene	1650	1390		ug/Kg		84	60 - 120
Phenol	1650	1120		ug/Kg		68	53 - 120
Pyrene	1650	1550		ug/Kg		94	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*54 - 120*
2-Fluorobiphenyl	*86*		*60 - 120*
2-Fluorophenol	*68*		*52 - 120*
Nitrobenzene-d5	*83*		*53 - 120*
Phenol-d5	*71*		*54 - 120*
p-Terphenyl-d14	*96*		*79 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597014

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		1940	1020		ug/Kg	☼	52	13 - 120
2,4,5-Trichlorophenol	ND		1940	1710		ug/Kg	☼	88	46 - 120
2,4,6-Trichlorophenol	ND		1940	1780		ug/Kg	☼	92	41 - 123
2,4-Dichlorophenol	ND		1940	1640		ug/Kg	☼	85	45 - 120
2,4-Dimethylphenol	ND		1940	1800		ug/Kg	☼	92	52 - 120
2,4-Dinitrophenol	ND		3890	2620		ug/Kg	☼	67	41 - 146
2,4-Dinitrotoluene	ND		1940	1760		ug/Kg	☼	91	63 - 125
2,6-Dinitrotoluene	ND		1940	1750		ug/Kg	☼	90	66 - 120
2-Chloronaphthalene	ND		1940	1720		ug/Kg	☼	88	57 - 120
2-Chlorophenol	ND		1940	1560		ug/Kg	☼	80	43 - 120
2-Methylnaphthalene	ND		1940	1670		ug/Kg	☼	86	55 - 120
2-Methylphenol	ND		1940	1590		ug/Kg	☼	82	48 - 120
2-Nitroaniline	ND		1940	1660		ug/Kg	☼	86	61 - 120
2-Nitrophenol	ND		1940	1690		ug/Kg	☼	87	37 - 120
3,3'-Dichlorobenzidine	ND		3890	3520		ug/Kg	☼	91	37 - 126
3-Nitroaniline	ND		1940	1610		ug/Kg	☼	83	48 - 120
4,6-Dinitro-2-methylphenol	ND		3890	3650		ug/Kg	☼	94	23 - 149
4-Bromophenyl phenyl ether	ND		1940	1980		ug/Kg	☼	102	58 - 120
4-Chloro-3-methylphenol	ND		1940	1760		ug/Kg	☼	91	49 - 125
4-Chloroaniline	ND		1940	1530		ug/Kg	☼	78	38 - 120
4-Chlorophenyl phenyl ether	ND		1940	1810		ug/Kg	☼	93	63 - 124
4-Methylphenol	ND		1940	1620		ug/Kg	☼	83	50 - 120
4-Nitroaniline	ND		1940	1540		ug/Kg	☼	79	47 - 120
4-Nitrophenol	ND		3890	3590		ug/Kg	☼	92	31 - 147
Acenaphthene	ND		1940	1750		ug/Kg	☼	90	60 - 120
Acenaphthylene	ND		1940	1890		ug/Kg	☼	97	58 - 121
Acetophenone	ND		1940	1660		ug/Kg	☼	85	47 - 120
Anthracene	ND		1940	1860		ug/Kg	☼	96	62 - 120
Atrazine	ND		3890	3290		ug/Kg	☼	85	60 - 150
Benzaldehyde	ND		3890	1470		ug/Kg	☼	38	10 - 150
Benzo[a]anthracene	ND		1940	1910		ug/Kg	☼	98	65 - 120
Benzo[a]pyrene	ND		1940	1900		ug/Kg	☼	98	64 - 120
Benzo[b]fluoranthene	ND		1940	1880		ug/Kg	☼	97	10 - 150
Benzo[g,h,i]perylene	ND		1940	1930		ug/Kg	☼	99	45 - 145
Benzo[k]fluoranthene	ND		1940	1930		ug/Kg	☼	99	23 - 150
Biphenyl	ND		1940	1780		ug/Kg	☼	92	58 - 120
bis (2-chloroisopropyl) ether	ND		1940	1390		ug/Kg	☼	71	31 - 120
Bis(2-chloroethoxy)methane	ND		1940	1610		ug/Kg	☼	83	52 - 120
Bis(2-chloroethyl)ether	ND		1940	1510		ug/Kg	☼	78	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1940	1990		ug/Kg	☼	103	61 - 133
Butyl benzyl phthalate	ND		1940	2010		ug/Kg	☼	103	61 - 120
Caprolactam	ND		3890	3290		ug/Kg	☼	85	37 - 133
Carbazole	ND		1940	1870		ug/Kg	☼	96	59 - 120
Chrysene	ND		1940	1940		ug/Kg	☼	100	64 - 120
Dibenz(a,h)anthracene	ND		1940	1970		ug/Kg	☼	101	54 - 132
Dibenzofuran	ND		1940	1760		ug/Kg	☼	90	62 - 120
Diethyl phthalate	ND		1940	1900		ug/Kg	☼	98	66 - 120
Dimethyl phthalate	ND		1940	1900		ug/Kg	☼	98	65 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597014

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	ND		1940	1940		ug/Kg	☼	100	58 - 130
Di-n-octyl phthalate	ND		1940	1900		ug/Kg	☼	98	57 - 133
Fluoranthene	ND		1940	1800		ug/Kg	☼	93	62 - 120
Fluorene	ND		1940	1800		ug/Kg	☼	93	63 - 120
Hexachlorobenzene	ND		1940	1980		ug/Kg	☼	102	60 - 120
Hexachlorobutadiene	ND		1940	1680		ug/Kg	☼	87	45 - 120
Hexachlorocyclopentadiene	ND		1940	1640		ug/Kg	☼	85	31 - 120
Hexachloroethane	ND		1940	1510		ug/Kg	☼	78	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1940	1910		ug/Kg	☼	98	56 - 134
Isophorone	ND		1940	1740		ug/Kg	☼	90	56 - 120
Naphthalene	ND		1940	1620		ug/Kg	☼	83	46 - 120
Nitrobenzene	ND		1940	1630		ug/Kg	☼	84	49 - 120
N-Nitrosodi-n-propylamine	ND		1940	1590		ug/Kg	☼	82	46 - 120
Pentachlorophenol	ND		3890	3210		ug/Kg	☼	83	25 - 136
Phenanthrene	ND		1940	1820		ug/Kg	☼	94	60 - 122
Phenol	ND		1940	1470		ug/Kg	☼	76	50 - 120
Pyrene	ND		1940	1860		ug/Kg	☼	96	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*110*		*54 - 120*
2-Fluorobiphenyl	*94*		*60 - 120*
2-Fluorophenol	*74*		*52 - 120*
Nitrobenzene-d5	*86*		*53 - 120*
Phenol-d5	*83*		*54 - 120*
p-Terphenyl-d14	*104*		*79 - 130*

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		1940	1010		ug/Kg	☼	52	13 - 120	0	50
2,4,5-Trichlorophenol	ND		1940	1730		ug/Kg	☼	89	46 - 120	1	18
2,4,6-Trichlorophenol	ND		1940	1850		ug/Kg	☼	95	41 - 123	4	19
2,4-Dichlorophenol	ND		1940	1670		ug/Kg	☼	86	45 - 120	1	19
2,4-Dimethylphenol	ND		1940	1680		ug/Kg	☼	86	52 - 120	7	42
2,4-Dinitrophenol	ND		3890	2800		ug/Kg	☼	72	41 - 146	7	22
2,4-Dinitrotoluene	ND		1940	1790		ug/Kg	☼	92	63 - 125	2	20
2,6-Dinitrotoluene	ND		1940	1880		ug/Kg	☼	97	66 - 120	7	15
2-Chloronaphthalene	ND		1940	1840		ug/Kg	☼	95	57 - 120	7	21
2-Chlorophenol	ND		1940	1510		ug/Kg	☼	78	43 - 120	3	25
2-Methylnaphthalene	ND		1940	1660		ug/Kg	☼	85	55 - 120	0	21
2-Methylphenol	ND		1940	1480		ug/Kg	☼	76	48 - 120	7	27
2-Nitroaniline	ND		1940	1790		ug/Kg	☼	92	61 - 120	7	15
2-Nitrophenol	ND		1940	1720		ug/Kg	☼	89	37 - 120	2	18
3,3'-Dichlorobenzidine	ND		3890	3570		ug/Kg	☼	92	37 - 126	1	25
3-Nitroaniline	ND		1940	1600		ug/Kg	☼	82	48 - 120	1	19
4,6-Dinitro-2-methylphenol	ND		3890	3540		ug/Kg	☼	91	23 - 149	3	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	ND		1940	2020		ug/Kg	☼	104	58 - 120	2	15
4-Chloro-3-methylphenol	ND		1940	1640		ug/Kg	☼	84	49 - 125	7	27
4-Chloroaniline	ND		1940	1460		ug/Kg	☼	75	38 - 120	4	22
4-Chlorophenyl phenyl ether	ND		1940	1790		ug/Kg	☼	92	63 - 124	1	16
4-Methylphenol	ND		1940	1480		ug/Kg	☼	76	50 - 120	9	24
4-Nitroaniline	ND		1940	1540		ug/Kg	☼	79	47 - 120	0	24
4-Nitrophenol	ND		3890	3830		ug/Kg	☼	99	31 - 147	7	25
Acenaphthene	ND		1940	1780		ug/Kg	☼	92	60 - 120	2	35
Acenaphthylene	ND		1940	1920		ug/Kg	☼	99	58 - 121	2	18
Acetophenone	ND		1940	1550		ug/Kg	☼	80	47 - 120	6	20
Anthracene	ND		1940	1810		ug/Kg	☼	93	62 - 120	3	15
Atrazine	ND		3890	3220		ug/Kg	☼	83	60 - 150	2	20
Benzaldehyde	ND		3890	1590		ug/Kg	☼	41	10 - 150	8	20
Benzo[a]anthracene	ND		1940	1890		ug/Kg	☼	97	65 - 120	1	15
Benzo[a]pyrene	ND		1940	1840		ug/Kg	☼	95	64 - 120	3	15
Benzo[b]fluoranthene	ND		1940	1980		ug/Kg	☼	102	10 - 150	5	15
Benzo[g,h,i]perylene	ND		1940	1950		ug/Kg	☼	100	45 - 145	1	15
Benzo[k]fluoranthene	ND		1940	1790		ug/Kg	☼	92	23 - 150	7	22
Biphenyl	ND		1940	1800		ug/Kg	☼	92	58 - 120	1	20
bis (2-chloroisopropyl) ether	ND		1940	1190		ug/Kg	☼	61	31 - 120	15	24
Bis(2-chloroethoxy)methane	ND		1940	1600		ug/Kg	☼	82	52 - 120	0	17
Bis(2-chloroethyl)ether	ND		1940	1490		ug/Kg	☼	76	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	ND		1940	1920		ug/Kg	☼	99	61 - 133	4	15
Butyl benzyl phthalate	ND		1940	1920		ug/Kg	☼	99	61 - 120	5	16
Caprolactam	ND		3890	3200		ug/Kg	☼	82	37 - 133	3	20
Carbazole	ND		1940	1850		ug/Kg	☼	95	59 - 120	1	20
Chrysene	ND		1940	1890		ug/Kg	☼	97	64 - 120	3	15
Dibenz(a,h)anthracene	ND		1940	2020		ug/Kg	☼	104	54 - 132	2	15
Dibenzofuran	ND		1940	1830		ug/Kg	☼	94	62 - 120	4	15
Diethyl phthalate	ND		1940	1820		ug/Kg	☼	94	66 - 120	5	15
Dimethyl phthalate	ND		1940	1800		ug/Kg	☼	93	65 - 124	6	15
Di-n-butyl phthalate	ND		1940	1910		ug/Kg	☼	98	58 - 130	2	15
Di-n-octyl phthalate	ND		1940	1840		ug/Kg	☼	94	57 - 133	4	16
Fluoranthene	ND		1940	1780		ug/Kg	☼	92	62 - 120	1	15
Fluorene	ND		1940	1710		ug/Kg	☼	88	63 - 120	5	15
Hexachlorobenzene	ND		1940	1970		ug/Kg	☼	101	60 - 120	1	15
Hexachlorobutadiene	ND		1940	1790		ug/Kg	☼	92	45 - 120	6	44
Hexachlorocyclopentadiene	ND		1940	1710		ug/Kg	☼	88	31 - 120	4	49
Hexachloroethane	ND		1940	1460		ug/Kg	☼	75	21 - 120	4	46
Indeno[1,2,3-cd]pyrene	ND		1940	1920		ug/Kg	☼	99	56 - 134	1	15
Isophorone	ND		1940	1660		ug/Kg	☼	86	56 - 120	5	17
Naphthalene	ND		1940	1630		ug/Kg	☼	84	46 - 120	1	29
Nitrobenzene	ND		1940	1610		ug/Kg	☼	83	49 - 120	1	24
N-Nitrosodi-n-propylamine	ND		1940	1470		ug/Kg	☼	76	46 - 120	8	31
Pentachlorophenol	ND		3890	3080		ug/Kg	☼	79	25 - 136	4	35
Phenanthrene	ND		1940	1810		ug/Kg	☼	93	60 - 122	1	15
Phenol	ND		1940	1370		ug/Kg	☼	70	50 - 120	7	35
Pyrene	ND		1940	1790		ug/Kg	☼	92	61 - 133	4	35

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597198

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597014

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*54 - 120*
2-Fluorobiphenyl	*96*		*60 - 120*
2-Fluorophenol	*74*		*52 - 120*
Nitrobenzene-d5	*84*		*53 - 120*
Phenol-d5	*76*		*54 - 120*
p-Terphenyl-d14	*98*		*79 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-596924/1-A
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Aldrin	ND		1.6	0.40	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
alpha-BHC	ND		1.6	0.29	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
beta-BHC	ND		1.6	0.29	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
cis-Chlordane	ND		1.6	0.81	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
delta-BHC	ND		1.6	0.30	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Dieldrin	ND		1.6	0.39	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Endosulfan I	ND		1.6	0.31	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Endosulfan II	ND		1.6	0.29	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Endrin	ND		1.6	0.32	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Endrin aldehyde	ND		1.6	0.42	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Endrin ketone	0.542	J	1.6	0.40	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Heptachlor	ND		1.6	0.35	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Methoxychlor	ND		1.6	0.33	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
Toxaphene	ND		16	9.5	ug/Kg		09/18/21 06:17	09/20/21 09:33	1
trans-Chlordane	ND		1.6	0.52	ug/Kg		09/18/21 06:17	09/20/21 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*45 - 120*	*09/18/21 06:17*	*09/20/21 09:33*	*1*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*09/18/21 06:17*	*09/20/21 09:33*	*1*
Tetrachloro-m-xylene	*80*		*30 - 124*	*09/18/21 06:17*	*09/20/21 09:33*	*1*
Tetrachloro-m-xylene	*75*		*30 - 124*	*09/18/21 06:17*	*09/20/21 09:33*	*1*

Lab Sample ID: LCS 480-596924/2-A
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.6	15.5		ug/Kg		94	56 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-596924/2-A
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	16.6	13.2		ug/Kg		80	44 - 120
4,4'-DDT	16.6	16.2		ug/Kg		98	38 - 120
Aldrin	16.6	12.5		ug/Kg		76	38 - 120
alpha-BHC	16.6	11.9		ug/Kg		72	39 - 120
beta-BHC	16.6	13.8		ug/Kg		83	40 - 120
cis-Chlordane	16.6	12.9		ug/Kg		78	47 - 120
delta-BHC	16.6	14.2		ug/Kg		86	45 - 120
Dieldrin	16.6	14.4		ug/Kg		87	58 - 120
Endosulfan I	16.6	14.2		ug/Kg		86	49 - 120
Endosulfan II	16.6	15.8		ug/Kg		95	55 - 120
Endosulfan sulfate	16.6	15.1		ug/Kg		91	49 - 124
Endrin	16.6	15.1		ug/Kg		91	58 - 120
Endrin aldehyde	16.6	11.9		ug/Kg		72	37 - 121
Endrin ketone	16.6	15.5		ug/Kg		94	46 - 123
gamma-BHC (Lindane)	16.6	12.4		ug/Kg		75	50 - 120
Heptachlor	16.6	13.9		ug/Kg		84	50 - 120
Heptachlor epoxide	16.6	14.6		ug/Kg		88	50 - 120
Methoxychlor	16.6	18.3		ug/Kg		110	58 - 133
trans-Chlordane	16.6	14.4		ug/Kg		87	48 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*45 - 120*
DCB Decachlorobiphenyl	*86*		*45 - 120*
Tetrachloro-m-xylene	*76*		*30 - 124*
Tetrachloro-m-xylene	*75*		*30 - 124*

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		18.8	18.4		ug/Kg	☼	98	37 - 126
4,4'-DDE	ND		18.8	15.8		ug/Kg	☼	84	34 - 120
4,4'-DDT	ND		18.8	19.6		ug/Kg	☼	105	43 - 123
Aldrin	ND		18.8	15.4		ug/Kg	☼	82	37 - 125
alpha-BHC	ND		18.8	14.5		ug/Kg	☼	77	39 - 120
beta-BHC	0.51	J	18.8	19.0		ug/Kg	☼	99	36 - 120
cis-Chlordane	ND		18.8	15.1		ug/Kg	☼	80	35 - 120
delta-BHC	ND		18.8	17.3		ug/Kg	☼	92	34 - 120
Dieldrin	ND		18.8	17.5		ug/Kg	☼	93	45 - 120
Endosulfan I	ND		18.8	17.4		ug/Kg	☼	93	39 - 120
Endosulfan II	ND		18.8	18.6		ug/Kg	☼	99	34 - 126
Endosulfan sulfate	ND		18.8	17.7		ug/Kg	☼	94	27 - 130
Endrin	ND		18.8	18.2		ug/Kg	☼	97	47 - 121
Endrin aldehyde	ND		18.8	13.8		ug/Kg	☼	73	33 - 123
Endrin ketone	0.68	J B	18.8	18.3		ug/Kg	☼	94	43 - 126
gamma-BHC (Lindane)	ND		18.8	15.2		ug/Kg	☼	81	50 - 120
Heptachlor	ND		18.8	17.0		ug/Kg	☼	90	42 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	ND		18.8	17.7		ug/Kg	☼	94	40 - 120
Methoxychlor	ND		18.8	22.2		ug/Kg	☼	118	44 - 150
trans-Chlordane	ND		18.8	16.6		ug/Kg	☼	89	31 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*45 - 120*
DCB Decachlorobiphenyl	*90*		*45 - 120*
Tetrachloro-m-xylene	*78*		*30 - 124*
Tetrachloro-m-xylene	*76*		*30 - 124*

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		18.7	18.9		ug/Kg	☼	101	37 - 126	3	21
4,4'-DDE	ND		18.7	15.8		ug/Kg	☼	85	34 - 120	0	18
4,4'-DDT	ND		18.7	20.7		ug/Kg	☼	111	43 - 123	5	25
Aldrin	ND		18.7	15.3		ug/Kg	☼	82	37 - 125	1	12
alpha-BHC	ND		18.7	14.6		ug/Kg	☼	78	39 - 120	1	15
beta-BHC	0.51	J	18.7	16.9		ug/Kg	☼	88	36 - 120	12	19
cis-Chlordane	ND		18.7	15.5		ug/Kg	☼	83	35 - 120	2	23
delta-BHC	ND		18.7	17.6		ug/Kg	☼	94	34 - 120	2	14
Dieldrin	ND		18.7	18.2		ug/Kg	☼	98	45 - 120	4	12
Endosulfan I	ND		18.7	17.7		ug/Kg	☼	95	39 - 120	2	18
Endosulfan II	ND		18.7	19.3		ug/Kg	☼	104	34 - 126	4	26
Endosulfan sulfate	ND		18.7	19.1		ug/Kg	☼	102	27 - 130	8	35
Endrin	ND		18.7	18.6		ug/Kg	☼	100	47 - 121	3	20
Endrin aldehyde	ND		18.7	15.1		ug/Kg	☼	81	33 - 123	9	47
Endrin ketone	0.68	J B	18.7	19.4		ug/Kg	☼	100	43 - 126	6	37
gamma-BHC (Lindane)	ND		18.7	15.1		ug/Kg	☼	81	50 - 120	1	12
Heptachlor	ND		18.7	17.3		ug/Kg	☼	93	42 - 120	2	22
Heptachlor epoxide	ND		18.7	18.0		ug/Kg	☼	96	40 - 120	2	15
Methoxychlor	ND		18.7	23.3		ug/Kg	☼	125	44 - 150	5	24
trans-Chlordane	ND		18.7	16.5		ug/Kg	☼	89	31 - 120	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*45 - 120*
DCB Decachlorobiphenyl	*91*		*45 - 120*
Tetrachloro-m-xylene	*85*		*30 - 124*
Tetrachloro-m-xylene	*79*		*30 - 124*

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		19.6	21.1		ug/Kg	☼	108	37 - 126

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	ND		19.6	18.3		ug/Kg	☼	93	34 - 120
4,4'-DDT	ND		19.6	22.8		ug/Kg	☼	116	43 - 123
Aldrin	ND		19.6	17.7		ug/Kg	☼	90	37 - 125
alpha-BHC	ND		19.6	17.6		ug/Kg	☼	90	39 - 120
beta-BHC	ND		19.6	20.4		ug/Kg	☼	104	36 - 120
cis-Chlordane	ND		19.6	17.7		ug/Kg	☼	90	35 - 120
delta-BHC	ND		19.6	20.6		ug/Kg	☼	105	34 - 120
Dieldrin	ND		19.6	19.7		ug/Kg	☼	100	45 - 120
Endosulfan I	ND		19.6	19.2		ug/Kg	☼	98	39 - 120
Endosulfan II	ND		19.6	21.6		ug/Kg	☼	110	34 - 126
Endosulfan sulfate	ND		19.6	21.0		ug/Kg	☼	107	27 - 130
Endrin	ND		19.6	20.2		ug/Kg	☼	103	47 - 121
Endrin aldehyde	ND		19.6	16.3		ug/Kg	☼	83	33 - 123
Endrin ketone	0.49	J B	19.6	21.6		ug/Kg	☼	108	43 - 126
gamma-BHC (Lindane)	ND		19.6	18.2		ug/Kg	☼	93	50 - 120
Heptachlor	ND		19.6	19.8		ug/Kg	☼	101	42 - 120
Heptachlor epoxide	ND		19.6	20.2		ug/Kg	☼	103	40 - 120
Methoxychlor	ND		19.6	24.4		ug/Kg	☼	124	44 - 150
trans-Chlordane	ND		19.6	17.8		ug/Kg	☼	90	31 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*45 - 120*
DCB Decachlorobiphenyl	*97*		*45 - 120*
Tetrachloro-m-xylene	*98*		*30 - 124*
Tetrachloro-m-xylene	*95*		*30 - 124*

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		19.4	22.0		ug/Kg	☼	114	37 - 126	4	21
4,4'-DDE	ND		19.4	18.8		ug/Kg	☼	97	34 - 120	3	18
4,4'-DDT	ND		19.4	23.0		ug/Kg	☼	119	43 - 123	1	25
Aldrin	ND		19.4	18.0		ug/Kg	☼	93	37 - 125	2	12
alpha-BHC	ND		19.4	18.0		ug/Kg	☼	93	39 - 120	2	15
beta-BHC	ND		19.4	20.9		ug/Kg	☼	107	36 - 120	2	19
cis-Chlordane	ND		19.4	18.5		ug/Kg	☼	95	35 - 120	4	23
delta-BHC	ND		19.4	21.1		ug/Kg	☼	108	34 - 120	2	14
Dieldrin	ND		19.4	20.9		ug/Kg	☼	108	45 - 120	6	12
Endosulfan I	ND		19.4	20.0		ug/Kg	☼	103	39 - 120	4	18
Endosulfan II	ND		19.4	22.1		ug/Kg	☼	114	34 - 126	2	26
Endosulfan sulfate	ND		19.4	21.5		ug/Kg	☼	111	27 - 130	3	35
Endrin	ND		19.4	20.7		ug/Kg	☼	106	47 - 121	2	20
Endrin aldehyde	ND		19.4	17.8		ug/Kg	☼	91	33 - 123	9	47
Endrin ketone	0.49	J B	19.4	22.4		ug/Kg	☼	113	43 - 126	3	37
gamma-BHC (Lindane)	ND		19.4	18.6		ug/Kg	☼	96	50 - 120	2	12
Heptachlor	ND		19.4	20.1		ug/Kg	☼	104	42 - 120	2	22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597011

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		19.4	20.8		ug/Kg	☼	107	40 - 120	3	15
Methoxychlor	ND		19.4	24.5		ug/Kg	☼	126	44 - 150	0	24
trans-Chlordane	ND		19.4	18.6		ug/Kg	☼	96	31 - 120	5	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*45 - 120*
DCB Decachlorobiphenyl	*104*		*45 - 120*
Tetrachloro-m-xylene	*98*		*30 - 124*
Tetrachloro-m-xylene	*94*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-596753/1-A
Matrix: Solid
Analysis Batch: 596935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg		09/17/21 08:03	09/18/21 12:38	1
PCB-1221	ND		0.22	0.043	mg/Kg		09/17/21 08:03	09/18/21 12:38	1
PCB-1232	ND		0.22	0.043	mg/Kg		09/17/21 08:03	09/18/21 12:38	1
PCB-1242	ND		0.22	0.043	mg/Kg		09/17/21 08:03	09/18/21 12:38	1
PCB-1248	ND		0.22	0.043	mg/Kg		09/17/21 08:03	09/18/21 12:38	1
PCB-1254	ND		0.22	0.10	mg/Kg		09/17/21 08:03	09/18/21 12:38	1
PCB-1260	ND		0.22	0.10	mg/Kg		09/17/21 08:03	09/18/21 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*60 - 154*	*09/17/21 08:03*	*09/18/21 12:38*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*09/17/21 08:03*	*09/18/21 12:38*	*1*
DCB Decachlorobiphenyl	*96*		*65 - 174*	*09/17/21 08:03*	*09/18/21 12:38*	*1*
DCB Decachlorobiphenyl	*99*		*65 - 174*	*09/17/21 08:03*	*09/18/21 12:38*	*1*

Lab Sample ID: LCS 480-596753/2-A
Matrix: Solid
Analysis Batch: 596935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596753

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.21	2.20		mg/Kg		100	51 - 185		
PCB-1260			2.21	2.25		mg/Kg		102	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*113*		*60 - 154*
Tetrachloro-m-xylene	*118*		*60 - 154*
DCB Decachlorobiphenyl	*106*		*65 - 174*
DCB Decachlorobiphenyl	*110*		*65 - 174*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 596935

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.78	2.56		mg/Kg	☼	92	50 - 177
PCB-1260	ND		2.78	2.65		mg/Kg	☼	95	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*113*		*60 - 154*
Tetrachloro-m-xylene	*118*		*60 - 154*
DCB Decachlorobiphenyl	*104*		*65 - 174*
DCB Decachlorobiphenyl	*108*		*65 - 174*

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 596935

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.52	1.94		mg/Kg	☼	77	50 - 177	27	50
PCB-1260	ND		2.52	1.94		mg/Kg	☼	77	33 - 200	31	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*60 - 154*
Tetrachloro-m-xylene	*102*		*60 - 154*
DCB Decachlorobiphenyl	*91*		*65 - 174*
DCB Decachlorobiphenyl	*93*		*65 - 174*

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 596935

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.88	2.78		mg/Kg	☼	97	50 - 177
PCB-1260	ND		2.88	2.85		mg/Kg	☼	99	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*60 - 154*
Tetrachloro-m-xylene	*115*		*60 - 154*
DCB Decachlorobiphenyl	*107*		*65 - 174*
DCB Decachlorobiphenyl	*114*		*65 - 174*

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 596935

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.78	2.28		mg/Kg	☼	82	50 - 177	20	50
PCB-1260	ND		2.78	2.32		mg/Kg	☼	84	33 - 200	20	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*105*		*60 - 154*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 596935

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596753

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*110*		*60 - 154*
DCB Decachlorobiphenyl	*100*		*65 - 174*
DCB Decachlorobiphenyl	*106*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-597006/1-A
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.2	ug/Kg		09/20/21 07:12	09/21/21 13:24	1
2,4-D	ND		16	10	ug/Kg		09/20/21 07:12	09/21/21 13:24	1
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		09/20/21 07:12	09/21/21 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*09/20/21 07:12*	*09/21/21 13:24*	*1*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*09/20/21 07:12*	*09/21/21 13:24*	*1*

Lab Sample ID: LCS 480-597006/2-A
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597006

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			65.8	40.0		ug/Kg		61	41 - 120		
2,4-D			65.8	48.6		ug/Kg		74	40 - 120		
Silvex (2,4,5-TP)			65.8	42.9		ug/Kg		65	39 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*
2,4-Dichlorophenylacetic acid	*82*		*28 - 129*

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T	ND		77.7	42.6		ug/Kg	☼	55	29 - 123		
2,4-D	ND		77.7	53.2		ug/Kg	☼	68	32 - 115		
Silvex (2,4,5-TP)	ND		77.7	45.9		ug/Kg	☼	59	22 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*61*		*28 - 129*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		77.0	40.7		ug/Kg	☼	53	29 - 123	5	50
2,4-D	ND		77.0	50.3		ug/Kg	☼	65	32 - 115	6	50
Silvex (2,4,5-TP)	ND		77.0	44.2		ug/Kg	☼	57	22 - 140	4	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*62*		*28 - 129*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*

Lab Sample ID: MB 480-597124/1-A
Matrix: Solid
Analysis Batch: 597539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.2	ug/Kg		09/21/21 06:53	09/23/21 14:08	1
2,4-D	ND		16	10	ug/Kg		09/21/21 06:53	09/23/21 14:08	1
Silvex (2,4,5-TP)	ND		16	5.8	ug/Kg		09/21/21 06:53	09/23/21 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*63*		*28 - 129*	*09/21/21 06:53*	*09/23/21 14:08*	*1*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*09/21/21 06:53*	*09/23/21 14:08*	*1*

Lab Sample ID: LCS 480-597124/2-A
Matrix: Solid
Analysis Batch: 597539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	65.5	37.1		ug/Kg		57	41 - 120
2,4-D	65.5	37.0		ug/Kg		57	40 - 120
Silvex (2,4,5-TP)	65.5	37.2		ug/Kg		57	39 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 597539

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 597124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	ND		73.4	36.5		ug/Kg	☼	50	29 - 123
2,4-D	ND		73.4	39.0		ug/Kg	☼	53	32 - 115
Silvex (2,4,5-TP)	ND		73.4	37.0		ug/Kg	☼	50	22 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*59*		*28 - 129*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 597539

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 597124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		74.8	43.1		ug/Kg	☼	58	29 - 123	17	50
2,4-D	ND		74.8	46.7		ug/Kg	☼	62	32 - 115	18	50
Silvex (2,4,5-TP)	ND		74.8	43.1		ug/Kg	☼	58	22 - 140	15	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-171565/1-A
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.16	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.039	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.022	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.020	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.025	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.018	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.012	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.020	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.021	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.015	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.023	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorobutanesulfonic acid (PFBS)	0.00957	J	0.20	0.0093	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.014	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.20	0.015	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorooctanesulfonic acid (PFOS)	0.0181	J	0.20	0.016	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.012	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.017	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.0371	J	2.0	0.037	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.046	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0	0.031	ug/Kg		09/20/21 15:46	09/22/21 02:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.016	ug/Kg		09/20/21 15:46	09/22/21 02:22	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*93*		*50 - 150*	*09/20/21 15:46*	*09/22/21 02:22*	*1*
13C4 PFHpA	*86*		*50 - 150*	*09/20/21 15:46*	*09/22/21 02:22*	*1*
13C4 PFOA	*92*		*50 - 150*	*09/20/21 15:46*	*09/22/21 02:22*	*1*
13C4 PFOS	*95*		*50 - 150*	*09/20/21 15:46*	*09/22/21 02:22*	*1*
13C5 PFNA	*88*		*50 - 150*	*09/20/21 15:46*	*09/22/21 02:22*	*1*
13C4 PFBA	*85*		*25 - 150*	*09/20/21 15:46*	*09/22/21 02:22*	*1*
13C2 PFHxA	*90*		*50 - 150*	*09/20/21 15:46*	*09/22/21 02:22*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-171565/1-A
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171565

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	88		50 - 150	09/20/21 15:46	09/22/21 02:22	1
13C2 PFUnA	75		50 - 150	09/20/21 15:46	09/22/21 02:22	1
13C2 PFDoA	74		50 - 150	09/20/21 15:46	09/22/21 02:22	1
13C8 FOSA	83		25 - 150	09/20/21 15:46	09/22/21 02:22	1
13C5 PFPeA	94		25 - 150	09/20/21 15:46	09/22/21 02:22	1
13C2 PFTeDA	77		50 - 150	09/20/21 15:46	09/22/21 02:22	1
d3-NMeFOSAA	90		50 - 150	09/20/21 15:46	09/22/21 02:22	1
d5-NEtFOSAA	89		50 - 150	09/20/21 15:46	09/22/21 02:22	1
M2-6:2 FTS	128		25 - 150	09/20/21 15:46	09/22/21 02:22	1
M2-8:2 FTS	104		25 - 150	09/20/21 15:46	09/22/21 02:22	1
13C3 PFBS	101		50 - 150	09/20/21 15:46	09/22/21 02:22	1

Lab Sample ID: LCS 200-171565/2-A
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.26		ug/Kg		113	70 - 130
Perfluoropentanoic acid (PFPeA)	2.00	2.24		ug/Kg		112	70 - 130
Perfluorohexanoic acid (PFHxA)	2.00	2.20		ug/Kg		110	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.00	2.09		ug/Kg		104	70 - 130
Perfluorooctanoic acid (PFOA)	2.00	2.18		ug/Kg		109	70 - 130
Perfluorononanoic acid (PFNA)	2.00	2.21		ug/Kg		110	70 - 130
Perfluorodecanoic acid (PFDA)	2.00	2.09		ug/Kg		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	2.00	2.38		ug/Kg		119	70 - 130
Perfluorododecanoic acid (PFDoA)	2.00	2.27		ug/Kg		114	70 - 130
Perfluorotridecanoic acid (PFTriA)	2.00	2.19		ug/Kg		109	70 - 130
Perfluorotetradecanoic acid (PFTeA)	2.00	2.47		ug/Kg		123	70 - 130
Perfluorobutanesulfonic acid (PFBS)	1.77	1.89		ug/Kg		107	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.97		ug/Kg		108	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.24		ug/Kg		118	70 - 130
Perfluorooctanesulfonic acid (PFOS)	1.86	1.94		ug/Kg		104	70 - 130
Perfluorodecanesulfonic acid (PFDS)	1.93	1.88		ug/Kg		97	70 - 130
Perfluorooctanesulfonamide (PFOSA)	2.00	2.40		ug/Kg		120	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.30		ug/Kg		115	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.17		ug/Kg		108	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.90	1.80	J	ug/Kg		95	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.92	2.17		ug/Kg		113	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
18O2 PFHxS	97		50 - 150
13C4 PFHpA	90		50 - 150
13C4 PFOA	92		50 - 150
13C4 PFOS	94		50 - 150
13C5 PFNA	86		50 - 150
13C4 PFBA	85		25 - 150
13C2 PFHxA	89		50 - 150
13C2 PFDA	86		50 - 150
13C2 PFUnA	77		50 - 150
13C2 PFDoA	72		50 - 150
13C8 FOSA	79		25 - 150
13C5 PFPeA	91		25 - 150
13C2 PFTeDA	78		50 - 150
d3-NMeFOSAA	80		50 - 150
d5-NEtFOSAA	83		50 - 150
M2-6:2 FTS	125		25 - 150
M2-8:2 FTS	98		25 - 150
13C3 PFBS	102		50 - 150

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	ND		2.25	2.53		ug/Kg	☼	113	70 - 130
Perfluoropentanoic acid (PFPeA)	ND		2.25	2.55		ug/Kg	☼	113	70 - 130
Perfluorohexanoic acid (PFHxA)	ND		2.25	2.52		ug/Kg	☼	112	70 - 130
Perfluoroheptanoic acid (PFHpA)	ND		2.25	2.59		ug/Kg	☼	115	70 - 130
Perfluorooctanoic acid (PFOA)	ND		2.25	2.49		ug/Kg	☼	111	70 - 130
Perfluorononanoic acid (PFNA)	ND		2.25	2.63		ug/Kg	☼	117	70 - 130
Perfluorodecanoic acid (PFDA)	ND		2.25	2.58		ug/Kg	☼	115	70 - 130
Perfluoroundecanoic acid (PFUnA)	ND		2.25	2.85		ug/Kg	☼	127	70 - 130
Perfluorododecanoic acid (PFDoA)	ND		2.25	2.55		ug/Kg	☼	113	70 - 130
Perfluorotridecanoic acid (PFTriA)	ND		2.25	2.49		ug/Kg	☼	111	70 - 130
Perfluorotetradecanoic acid (PFTeA)	ND	F1	2.25	3.03	F1	ug/Kg	☼	135	70 - 130
Perfluorobutanesulfonic acid (PFBS)	ND		1.99	2.33		ug/Kg	☼	117	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	ND		2.05	2.34		ug/Kg	☼	114	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.14	2.57		ug/Kg	☼	120	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.020	J I B	2.09	2.34		ug/Kg	☼	111	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		2.17	2.14		ug/Kg	☼	99	70 - 130
Perfluorooctanesulfonamide (PFOSA)	ND		2.25	2.58		ug/Kg	☼	115	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.25	2.71		ug/Kg	☼	121	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.25	2.69		ug/Kg	☼	119	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.13	2.16	J	ug/Kg	☼	101	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.15	2.22		ug/Kg	☼	103	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*78*		*50 - 150*
13C4 PFHpA	*85*		*50 - 150*
13C4 PFOA	*84*		*50 - 150*
13C4 PFOS	*76*		*50 - 150*
13C5 PFNA	*78*		*50 - 150*
13C4 PFBA	*84*		*25 - 150*
13C2 PFHxA	*82*		*50 - 150*
13C2 PFDA	*78*		*50 - 150*
13C2 PFUnA	*69*		*50 - 150*
13C2 PFDoA	*67*		*50 - 150*
13C8 FOSA	*73*		*25 - 150*
13C5 PFPeA	*86*		*25 - 150*
13C2 PFTeDA	*68*		*50 - 150*
d3-NMeFOSAA	*72*		*50 - 150*
d5-NEtFOSAA	*68*		*50 - 150*
M2-6:2 FTS	*88*		*25 - 150*
M2-8:2 FTS	*81*		*25 - 150*
13C3 PFBS	*79*		*50 - 150*

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		2.21	2.56		ug/Kg	☼	116	70 - 130	1	20
Perfluoropentanoic acid (PFPeA)	ND		2.21	2.61		ug/Kg	☼	118	70 - 130	2	20
Perfluorohexanoic acid (PFHxA)	ND		2.21	2.59		ug/Kg	☼	117	70 - 130	3	20
Perfluoroheptanoic acid (PFHpA)	ND		2.21	2.44		ug/Kg	☼	110	70 - 130	6	20
Perfluorooctanoic acid (PFOA)	ND		2.21	2.49		ug/Kg	☼	113	70 - 130	0	20
Perfluorononanoic acid (PFNA)	ND		2.21	2.44		ug/Kg	☼	110	70 - 130	7	20
Perfluorodecanoic acid (PFDA)	ND		2.21	2.70		ug/Kg	☼	122	70 - 130	5	20
Perfluoroundecanoic acid (PFUnA)	ND		2.21	2.77		ug/Kg	☼	125	70 - 130	3	20
Perfluorododecanoic acid (PFDoA)	ND		2.21	2.43		ug/Kg	☼	110	70 - 130	5	20
Perfluorotridecanoic acid (PFTriA)	ND		2.21	2.45		ug/Kg	☼	111	70 - 130	1	20
Perfluorotetradecanoic acid (PFTeA)	ND	F1	2.21	2.93	F1	ug/Kg	☼	132	70 - 130	4	20
Perfluorobutanesulfonic acid (PFBS)	ND		1.96	2.32		ug/Kg	☼	119	70 - 130	0	20
Perfluorohexanesulfonic acid (PFHxS)	ND		2.01	2.27		ug/Kg	☼	113	70 - 130	3	20
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.11	2.49		ug/Kg	☼	118	70 - 130	3	20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	0.020	J I B	2.05	2.16		ug/Kg	☼	104	70 - 130	8	20
Perfluorodecanesulfonic acid (PFDS)	ND		2.13	2.41		ug/Kg	☼	113	70 - 130	12	20
Perfluorooctanesulfonamide (PFOSA)	ND		2.21	2.63		ug/Kg	☼	119	70 - 130	2	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.21	2.43		ug/Kg	☼	110	70 - 130	11	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.21	2.57		ug/Kg	☼	116	70 - 130	4	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.10	2.20		ug/Kg	☼	105	70 - 130	2	20
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.12	2.48		ug/Kg	☼	117	70 - 130	11	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
18O2 PFHxS	*77*		*50 - 150*
13C4 PFHpA	*84*		*50 - 150*
13C4 PFOA	*83*		*50 - 150*
13C4 PFOS	*79*		*50 - 150*
13C5 PFNA	*80*		*50 - 150*
13C4 PFBA	*80*		*25 - 150*
13C2 PFHxA	*81*		*50 - 150*
13C2 PFDA	*77*		*50 - 150*
13C2 PFUnA	*71*		*50 - 150*
13C2 PFDoA	*71*		*50 - 150*
13C8 FOSA	*74*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFTeDA	*69*		*50 - 150*
d3-NMeFOSAA	*73*		*50 - 150*
d5-NEtFOSAA	*74*		*50 - 150*
M2-6:2 FTS	*89*		*25 - 150*
M2-8:2 FTS	*70*		*25 - 150*
13C3 PFBS	*78*		*50 - 150*

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	ND		2.26	2.69		ug/Kg	☼	119	70 - 130
Perfluoropentanoic acid (PFPeA)	ND		2.26	2.58		ug/Kg	☼	115	70 - 130
Perfluorohexanoic acid (PFHxA)	0.028	J	2.26	2.57		ug/Kg	☼	113	70 - 130
Perfluoroheptanoic acid (PFHpA)	ND		2.26	2.46		ug/Kg	☼	109	70 - 130
Perfluorooctanoic acid (PFOA)	ND		2.26	2.61		ug/Kg	☼	116	70 - 130
Perfluorononanoic acid (PFNA)	ND		2.26	2.77		ug/Kg	☼	123	70 - 130
Perfluorodecanoic acid (PFDA)	0.017	J	2.26	2.60		ug/Kg	☼	115	70 - 130
Perfluoroundecanoic acid (PFUnA)	0.026	J	2.26	2.87		ug/Kg	☼	126	70 - 130
Perfluorododecanoic acid (PFDoA)	ND		2.26	2.66		ug/Kg	☼	118	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotridecanoic acid (PFTriA)	0.020	J	2.26	2.37		ug/Kg	☼	104	70 - 130
Perfluorotetradecanoic acid (PFTeA)	ND	F1	2.26	3.11	F1	ug/Kg	☼	138	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.021	J B	1.99	2.23		ug/Kg	☼	111	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.029	J	2.05	2.41		ug/Kg	☼	116	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	0.019	J	2.15	2.80		ug/Kg	☼	129	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.022	J B	2.09	2.42		ug/Kg	☼	115	70 - 130
Perfluorodecanesulfonic acid (PFDS)	0.018	J	2.18	2.56		ug/Kg	☼	117	70 - 130
Perfluorooctanesulfonamide (PFOSA)	0.026	J	2.26	2.67		ug/Kg	☼	117	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.079	J B	2.26	2.59		ug/Kg	☼	111	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.096	J	2.26	2.59		ug/Kg	☼	111	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.14	2.23	J	ug/Kg	☼	104	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.027	J	2.16	2.56		ug/Kg	☼	117	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*76*		*50 - 150*
13C4 PFHpA	*84*		*50 - 150*
13C4 PFOA	*84*		*50 - 150*
13C4 PFOS	*73*		*50 - 150*
13C5 PFNA	*75*		*50 - 150*
13C4 PFBA	*78*		*25 - 150*
13C2 PFHxA	*82*		*50 - 150*
13C2 PFDA	*77*		*50 - 150*
13C2 PFUnA	*70*		*50 - 150*
13C2 PFDoA	*71*		*50 - 150*
13C8 FOSA	*72*		*25 - 150*
13C5 PFPeA	*84*		*25 - 150*
13C2 PFTeDA	*66*		*50 - 150*
d3-NMeFOSAA	*75*		*50 - 150*
d5-NEtFOSAA	*73*		*50 - 150*
M2-6:2 FTS	*88*		*25 - 150*
M2-8:2 FTS	*75*		*25 - 150*
13C3 PFBS	*79*		*50 - 150*

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		2.27	2.62		ug/Kg	☼	115	70 - 130	3	20
Perfluoropentanoic acid (PFPeA)	ND		2.27	2.60		ug/Kg	☼	114	70 - 130	0	20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 171565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	0.028	J	2.27	2.73		ug/Kg	☼	119	70 - 130	6	20
Perfluoroheptanoic acid (PFHpA)	ND		2.27	2.54		ug/Kg	☼	112	70 - 130	3	20
Perfluorooctanoic acid (PFOA)	ND		2.27	2.61		ug/Kg	☼	115	70 - 130	0	20
Perfluorononanoic acid (PFNA)	ND		2.27	2.54		ug/Kg	☼	112	70 - 130	8	20
Perfluorodecanoic acid (PFDA)	0.017	J	2.27	2.54		ug/Kg	☼	111	70 - 130	2	20
Perfluoroundecanoic acid (PFUnA)	0.026	J	2.27	2.99		ug/Kg	☼	130	70 - 130	4	20
Perfluorododecanoic acid (PFDoA)	ND		2.27	2.71		ug/Kg	☼	119	70 - 130	2	20
Perfluorotridecanoic acid (PFTriA)	0.020	J	2.27	2.53		ug/Kg	☼	110	70 - 130	6	20
Perfluorotetradecanoic acid (PFTeA)	ND	F1	2.27	2.92		ug/Kg	☼	129	70 - 130	6	20
Perfluorobutanesulfonic acid (PFBS)	0.021	J B	2.01	2.20		ug/Kg	☼	109	70 - 130	1	20
Perfluorohexanesulfonic acid (PFHxS)	0.029	J	2.07	2.28		ug/Kg	☼	109	70 - 130	5	20
Perfluoroheptanesulfonic Acid (PFHpS)	0.019	J	2.16	2.70		ug/Kg	☼	124	70 - 130	4	20
Perfluorooctanesulfonic acid (PFOS)	0.022	J B	2.11	2.33		ug/Kg	☼	110	70 - 130	4	20
Perfluorodecanesulfonic acid (PFDS)	0.018	J	2.19	2.50		ug/Kg	☼	113	70 - 130	3	20
Perfluorooctanesulfonamide (PFOSA)	0.026	J	2.27	2.67		ug/Kg	☼	116	70 - 130	0	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.079	J B	2.27	2.49		ug/Kg	☼	106	70 - 130	4	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.096	J	2.27	2.50		ug/Kg	☼	106	70 - 130	3	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.15	2.27	J	ug/Kg	☼	106	70 - 130	2	20
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.027	J	2.17	2.60		ug/Kg	☼	118	70 - 130	2	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
18O2 PFHxS	*73*		*50 - 150*
13C4 PFHpA	*79*		*50 - 150*
13C4 PFOA	*79*		*50 - 150*
13C4 PFOS	*71*		*50 - 150*
13C5 PFNA	*73*		*50 - 150*
13C4 PFBA	*75*		*25 - 150*
13C2 PFHxA	*73*		*50 - 150*
13C2 PFDA	*76*		*50 - 150*
13C2 PFUnA	*68*		*50 - 150*
13C2 PFDoA	*68*		*50 - 150*
13C8 FOSA	*71*		*25 - 150*
13C5 PFPeA	*80*		*25 - 150*
13C2 PFTeDA	*66*		*50 - 150*
d3-NMeFOSAA	*71*		*50 - 150*
d5-NEtFOSAA	*67*		*50 - 150*
M2-6:2 FTS	*84*		*25 - 150*
M2-8:2 FTS	*73*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 171657

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 171565

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 PFBS	80		50 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-596870/1-A
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.1	4.4	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Antimony	ND		15.1	0.40	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Arsenic	ND		2.0	0.40	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Barium	ND		0.50	0.11	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Beryllium	ND		0.20	0.028	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Cadmium	ND		0.20	0.030	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Calcium	ND		50.3	3.3	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Chromium	ND		0.50	0.20	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Cobalt	ND		0.50	0.050	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Copper	ND		1.0	0.21	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Iron	ND		10.1	3.5	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Lead	ND		1.0	0.24	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Magnesium	ND		20.1	0.93	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Manganese	ND		0.20	0.032	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Nickel	ND		5.0	0.23	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Selenium	ND		4.0	0.40	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Silver	ND		0.60	0.20	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Sodium	14.90	J	141	13.1	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Thallium	ND		6.0	0.30	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Vanadium	ND		0.50	0.11	mg/Kg		09/17/21 15:27	09/20/21 21:22	1
Zinc	ND		2.0	0.64	mg/Kg		09/17/21 15:27	09/20/21 21:22	1

Lab Sample ID: MB 480-596870/1-A
Matrix: Solid
Analysis Batch: 597370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		30.2	20.1	mg/Kg		09/17/21 15:27	09/21/21 18:43	1

Lab Sample ID: LCSSRM 480-596870/2-A
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8658		mg/Kg		105.7	49.6 - 149.0
Antimony	110	96.05		mg/Kg		87.3	23.5 - 304.5
Arsenic	162	134.5		mg/Kg		83.0	67.3 - 125.3
Barium	138	209.7		mg/Kg		152.0	129.7 - 215.9

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-596870/2-A
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	157	153.4		mg/Kg		97.7	80.9 - 135.0
Cadmium	135	127.0		mg/Kg		94.0	76.3 - 126.7
Calcium	4790	4308		mg/Kg		89.9	72.2 - 126.7
Chromium	117	138.5		mg/Kg		118.4	92.3 - 170.9
Cobalt	92.6	125.5		mg/Kg		135.5	98.1 - 163.1
Copper	143	47.16		mg/Kg		33.0	28.7 - 48.0
Iron	15100	13490		mg/Kg		89.3	32.6 - 153.6
Lead	77.6	130.6		mg/Kg		168.3	120.2 - 215.2
Magnesium	2320	2132		mg/Kg		91.9	62.1 - 137.9
Manganese	319	258.1		mg/Kg		80.9	62.4 - 106.6
Nickel	79.9	56.20		mg/Kg		70.3	47.2 - 87.6
Selenium	172	145.6		mg/Kg		84.6	65.7 - 128.5
Silver	24.7	28.68		mg/Kg		116.1	93.1 - 178.5
Sodium	137	155.6		mg/Kg		113.6	33.9 - 160.6
Thallium	88.0	117.4		mg/Kg		133.4	86.5 - 167.0
Vanadium	99.9	59.90		mg/Kg		60.0	37.0 - 88.4
Zinc	312	134.9		mg/Kg		43.2	35.6 - 65.7

Lab Sample ID: LCSSRM 480-596870/2-A
Matrix: Solid
Analysis Batch: 597370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2050	1983		mg/Kg		96.7	58.0 - 139.0

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11400		2340	23390	4	mg/Kg	☼	514	75 - 125
Antimony	0.91	J F1	46.8	28.31	F1	mg/Kg	☼	59	75 - 125
Arsenic	3.6		46.8	46.52		mg/Kg	☼	92	75 - 125
Barium	43.7	F1	46.8	118.2	F1	mg/Kg	☼	159	75 - 125
Beryllium	0.59		46.8	42.59		mg/Kg	☼	90	75 - 125
Cadmium	0.24		46.8	41.16		mg/Kg	☼	87	75 - 125
Calcium	18300	F2	2340	21710	4	mg/Kg	☼	148	75 - 125
Chromium	16.6		46.8	65.43		mg/Kg	☼	104	75 - 125
Cobalt	7.1		46.8	56.21		mg/Kg	☼	105	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	21.0		46.8	62.56		mg/Kg	☼	89	75 - 125
Iron	17900		2340	21900	4	mg/Kg	☼	172	75 - 125
Lead	12.2		46.8	59.40		mg/Kg	☼	101	75 - 125
Magnesium	5540	F1	2340	9952	F1	mg/Kg	☼	188	75 - 125
Manganese	164	F1	46.8	333.4	F1	mg/Kg	☼	362	75 - 125
Nickel	28.6		46.8	78.46		mg/Kg	☼	107	75 - 125
Potassium	1880	F1	2340	8250	F1	mg/Kg	☼	272	75 - 125
Selenium	1.9	J	46.8	42.00		mg/Kg	☼	86	75 - 125
Silver	ND		11.7	10.41		mg/Kg	☼	89	75 - 125
Sodium	139	J	2340	2281		mg/Kg	☼	91	75 - 125
Thallium	ND		46.8	45.95		mg/Kg	☼	98	75 - 125
Vanadium	22.4	F1	46.8	81.21	F1	mg/Kg	☼	126	75 - 125
Zinc	94.6	F1	46.8	146.3		mg/Kg	☼	110	75 - 125

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	11400		2270	26980	4	mg/Kg	☼	688	75 - 125	14	20
Antimony	0.91	J F1	45.3	24.67	F1	mg/Kg	☼	52	75 - 125	14	20
Arsenic	3.6		45.3	44.14		mg/Kg	☼	89	75 - 125	5	20
Barium	43.7	F1	45.3	132.5	F1	mg/Kg	☼	196	75 - 125	11	20
Beryllium	0.59		45.3	40.10		mg/Kg	☼	87	75 - 125	6	20
Cadmium	0.24		45.3	38.62		mg/Kg	☼	85	75 - 125	6	20
Calcium	18300	F2	2270	13610	4 F2	mg/Kg	☼	-205	75 - 125	46	20
Chromium	16.6		45.3	67.41		mg/Kg	☼	112	75 - 125	3	20
Cobalt	7.1		45.3	56.71		mg/Kg	☼	109	75 - 125	1	20
Copper	21.0		45.3	62.77		mg/Kg	☼	92	75 - 125	0	20
Iron	17900		2270	23350	4	mg/Kg	☼	241	75 - 125	6	20
Lead	12.2		45.3	58.55		mg/Kg	☼	102	75 - 125	1	20
Magnesium	5540	F1	2270	9075	F1	mg/Kg	☼	156	75 - 125	9	20
Manganese	164	F1	45.3	377.9	F1	mg/Kg	☼	472	75 - 125	13	20
Nickel	28.6		45.3	83.83		mg/Kg	☼	122	75 - 125	7	20
Potassium	1880	F1	2270	9024	F1	mg/Kg	☼	315	75 - 125	9	20
Selenium	1.9	J	45.3	39.68		mg/Kg	☼	83	75 - 125	6	20
Silver	ND		11.3	9.86		mg/Kg	☼	87	75 - 125	6	20
Sodium	139	J	2270	2118		mg/Kg	☼	87	75 - 125	7	20
Thallium	ND		45.3	44.12		mg/Kg	☼	97	75 - 125	4	20
Vanadium	22.4	F1	45.3	84.83	F1	mg/Kg	☼	138	75 - 125	4	20
Zinc	94.6	F1	45.3	159.5	F1	mg/Kg	☼	143	75 - 125	9	20

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	19900		2390	31620	4	mg/Kg	☼	490	75 - 125
Antimony	1.9	J	47.8	28.87	F1	mg/Kg	☼	56	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.8		47.8	49.66		mg/Kg	☼	81	75 - 125
Barium	112		47.8	149.0		mg/Kg	☼	78	75 - 125
Beryllium	1.4		47.8	45.70		mg/Kg	☼	93	75 - 125
Cadmium	2.0		47.8	43.51		mg/Kg	☼	87	75 - 125
Calcium	3780		2390	14110	F1	mg/Kg	☼	432	75 - 125
Chromium	25.9		47.8	76.56		mg/Kg	☼	106	75 - 125
Cobalt	83.4		47.8	57.55	F1	mg/Kg	☼	-54	75 - 125
Copper	44.5		47.8	70.25	F1	mg/Kg	☼	54	75 - 125
Iron	39600		2390	26460	4	mg/Kg	☼	-551	75 - 125
Lead	62.4		47.8	59.78	F1	mg/Kg	☼	-6	75 - 125
Magnesium	3590		2390	7441	F1	mg/Kg	☼	161	75 - 125
Manganese	3670		47.8	253.4	4	mg/Kg	☼	-7156	75 - 125
Nickel	71.0		47.8	87.44	F1	mg/Kg	☼	34	75 - 125
Potassium	2440		2390	9708	F1	mg/Kg	☼	304	75 - 125
Selenium	4.5	J	47.8	44.84		mg/Kg	☼	84	75 - 125
Silver	ND		11.9	11.11		mg/Kg	☼	93	75 - 125
Sodium	64.0	J	2390	2310		mg/Kg	☼	94	75 - 125
Thallium	ND		47.8	47.12		mg/Kg	☼	99	75 - 125
Vanadium	41.2		47.8	100.4		mg/Kg	☼	124	75 - 125
Zinc	104		47.8	128.4	F1	mg/Kg	☼	51	75 - 125

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597173

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 596870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	19900		2400	31040	4	mg/Kg	☼	464	75 - 125	2	20
Antimony	1.9	J	47.9	28.07	F1	mg/Kg	☼	55	75 - 125	3	20
Arsenic	10.8		47.9	50.18		mg/Kg	☼	82	75 - 125	1	20
Barium	112		47.9	142.1	F1	mg/Kg	☼	64	75 - 125	5	20
Beryllium	1.4		47.9	44.70		mg/Kg	☼	90	75 - 125	2	20
Cadmium	2.0		47.9	42.74		mg/Kg	☼	85	75 - 125	2	20
Calcium	3780		2390	15650	F1	mg/Kg	☼	496	75 - 125	10	20
Chromium	25.9		47.9	75.66		mg/Kg	☼	104	75 - 125	1	20
Cobalt	83.4		47.9	59.46	F1	mg/Kg	☼	-50	75 - 125	3	20
Copper	44.5		47.9	72.12	F1	mg/Kg	☼	58	75 - 125	3	20
Iron	39600		2390	28260	4	mg/Kg	☼	-475	75 - 125	7	20
Lead	62.4		47.9	62.10	F1	mg/Kg	☼	-0.7	75 - 125	4	20
Magnesium	3590		2390	7024	F1	mg/Kg	☼	143	75 - 125	6	20
Manganese	3670		47.9	328.5	4 F2	mg/Kg	☼	-6984	75 - 125	26	20
Nickel	71.0		47.9	88.06	F1	mg/Kg	☼	36	75 - 125	1	20
Potassium	2440		2400	9301	F1	mg/Kg	☼	286	75 - 125	4	20
Selenium	4.5	J	47.9	44.75		mg/Kg	☼	84	75 - 125	0	20
Silver	ND		12.0	10.96		mg/Kg	☼	92	75 - 125	1	20
Sodium	64.0	J	2400	2249		mg/Kg	☼	91	75 - 125	3	20
Thallium	ND		47.9	46.27		mg/Kg	☼	97	75 - 125	2	20
Vanadium	41.2		47.9	98.45		mg/Kg	☼	120	75 - 125	2	20
Zinc	104		47.9	129.1	F1	mg/Kg	☼	52	75 - 125	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-597657/1-A
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0049	mg/Kg		09/24/21 14:07	09/24/21 16:23	1

Lab Sample ID: LCSSRM 480-597657/2-A ^10
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597657

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	18.42		mg/Kg		67.7	59.9 - 140.1		

Lab Sample ID: 480-189652-1 MS
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 597657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.032		0.342	0.398		mg/Kg	☼	107	80 - 120		

Lab Sample ID: 480-189652-1 MSD
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: TP-3
Prep Type: Total/NA
Prep Batch: 597657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.032		0.410	0.474		mg/Kg	☼	108	80 - 120	18	20

Lab Sample ID: 480-189652-2 MS
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.052		0.376	0.434		mg/Kg	☼	102	80 - 120		

Lab Sample ID: 480-189652-2 MSD
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: TP-17
Prep Type: Total/NA
Prep Batch: 597657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.052		0.337	0.394		mg/Kg	☼	102	80 - 120	10	20

GC/MS VOA

Prep Batch: 596664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	5035A_L	
480-189652-2	TP-17	Total/NA	Solid	5035A_L	
480-189652-3	TP-8	Total/NA	Solid	5035A_L	
480-189652-4	TP-1	Total/NA	Solid	5035A_L	
MB 480-596664/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-596664/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-189652-1 MS	TP-3	Total/NA	Solid	5035A_L	
480-189652-1 MSD	TP-3	Total/NA	Solid	5035A_L	
480-189652-2 MS	TP-17	Total/NA	Solid	5035A_L	
480-189652-2 MSD	TP-17	Total/NA	Solid	5035A_L	

Analysis Batch: 596720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	8260C	596664
480-189652-2	TP-17	Total/NA	Solid	8260C	596664
480-189652-3	TP-8	Total/NA	Solid	8260C	596664
480-189652-4	TP-1	Total/NA	Solid	8260C	596664
MB 480-596664/2-A	Method Blank	Total/NA	Solid	8260C	596664
LCS 480-596664/1-A	Lab Control Sample	Total/NA	Solid	8260C	596664
480-189652-1 MS	TP-3	Total/NA	Solid	8260C	596664
480-189652-1 MSD	TP-3	Total/NA	Solid	8260C	596664
480-189652-2 MS	TP-17	Total/NA	Solid	8260C	596664
480-189652-2 MSD	TP-17	Total/NA	Solid	8260C	596664

GC/MS Semi VOA

Prep Batch: 596766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	3550C	
MB 480-596766/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596766/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189652-1 MS	TP-3	Total/NA	Solid	3550C	
480-189652-1 MSD	TP-3	Total/NA	Solid	3550C	

Analysis Batch: 596941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	8270D	596766
MB 480-596766/1-A	Method Blank	Total/NA	Solid	8270D	596766
LCS 480-596766/2-A	Lab Control Sample	Total/NA	Solid	8270D	596766
480-189652-1 MS	TP-3	Total/NA	Solid	8270D	596766
480-189652-1 MSD	TP-3	Total/NA	Solid	8270D	596766

Prep Batch: 597014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-2	TP-17	Total/NA	Solid	3550C	
480-189652-3	TP-8	Total/NA	Solid	3550C	
480-189652-4	TP-1	Total/NA	Solid	3550C	
MB 480-597014/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-597014/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189652-2 MS	TP-17	Total/NA	Solid	3550C	
480-189652-2 MSD	TP-17	Total/NA	Solid	3550C	

GC/MS Semi VOA

Analysis Batch: 597198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-2	TP-17	Total/NA	Solid	8270D	597014
480-189652-3	TP-8	Total/NA	Solid	8270D	597014
480-189652-4	TP-1	Total/NA	Solid	8270D	597014
MB 480-597014/1-A	Method Blank	Total/NA	Solid	8270D	597014
LCS 480-597014/2-A	Lab Control Sample	Total/NA	Solid	8270D	597014
480-189652-2 MS	TP-17	Total/NA	Solid	8270D	597014
480-189652-2 MSD	TP-17	Total/NA	Solid	8270D	597014

GC Semi VOA

Prep Batch: 596753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	3550C	
480-189652-2	TP-17	Total/NA	Solid	3550C	
480-189652-3	TP-8	Total/NA	Solid	3550C	
480-189652-4	TP-1	Total/NA	Solid	3550C	
MB 480-596753/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596753/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189652-1 MS	TP-3	Total/NA	Solid	3550C	
480-189652-1 MSD	TP-3	Total/NA	Solid	3550C	
480-189652-2 MS	TP-17	Total/NA	Solid	3550C	
480-189652-2 MSD	TP-17	Total/NA	Solid	3550C	

Prep Batch: 596924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	3550C	
480-189652-2	TP-17	Total/NA	Solid	3550C	
480-189652-3	TP-8	Total/NA	Solid	3550C	
480-189652-4	TP-1	Total/NA	Solid	3550C	
MB 480-596924/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596924/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189652-1 MS	TP-3	Total/NA	Solid	3550C	
480-189652-1 MSD	TP-3	Total/NA	Solid	3550C	
480-189652-2 MS	TP-17	Total/NA	Solid	3550C	
480-189652-2 MSD	TP-17	Total/NA	Solid	3550C	

Analysis Batch: 596935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	8082A	596753
480-189652-2	TP-17	Total/NA	Solid	8082A	596753
480-189652-3	TP-8	Total/NA	Solid	8082A	596753
480-189652-4	TP-1	Total/NA	Solid	8082A	596753
MB 480-596753/1-A	Method Blank	Total/NA	Solid	8082A	596753
LCS 480-596753/2-A	Lab Control Sample	Total/NA	Solid	8082A	596753
480-189652-1 MS	TP-3	Total/NA	Solid	8082A	596753
480-189652-1 MSD	TP-3	Total/NA	Solid	8082A	596753
480-189652-2 MS	TP-17	Total/NA	Solid	8082A	596753
480-189652-2 MSD	TP-17	Total/NA	Solid	8082A	596753

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

GC Semi VOA

Prep Batch: 597006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-2	TP-17	Total/NA	Solid	8151A	
480-189652-3	TP-8	Total/NA	Solid	8151A	
480-189652-4	TP-1	Total/NA	Solid	8151A	
MB 480-597006/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-597006/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-189652-2 MS	TP-17	Total/NA	Solid	8151A	
480-189652-2 MSD	TP-17	Total/NA	Solid	8151A	

Analysis Batch: 597011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	8081B	596924
480-189652-2	TP-17	Total/NA	Solid	8081B	596924
480-189652-3	TP-8	Total/NA	Solid	8081B	596924
480-189652-4	TP-1	Total/NA	Solid	8081B	596924
MB 480-596924/1-A	Method Blank	Total/NA	Solid	8081B	596924
LCS 480-596924/2-A	Lab Control Sample	Total/NA	Solid	8081B	596924
480-189652-1 MS	TP-3	Total/NA	Solid	8081B	596924
480-189652-1 MSD	TP-3	Total/NA	Solid	8081B	596924
480-189652-2 MS	TP-17	Total/NA	Solid	8081B	596924
480-189652-2 MSD	TP-17	Total/NA	Solid	8081B	596924

Prep Batch: 597124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	8151A	
MB 480-597124/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-597124/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-189652-1 MS	TP-3	Total/NA	Solid	8151A	
480-189652-1 MSD	TP-3	Total/NA	Solid	8151A	

Analysis Batch: 597172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-2	TP-17	Total/NA	Solid	8151A	597006
480-189652-3	TP-8	Total/NA	Solid	8151A	597006
480-189652-4	TP-1	Total/NA	Solid	8151A	597006
MB 480-597006/1-A	Method Blank	Total/NA	Solid	8151A	597006
LCS 480-597006/2-A	Lab Control Sample	Total/NA	Solid	8151A	597006
480-189652-2 MS	TP-17	Total/NA	Solid	8151A	597006
480-189652-2 MSD	TP-17	Total/NA	Solid	8151A	597006

Analysis Batch: 597539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	8151A	597124
MB 480-597124/1-A	Method Blank	Total/NA	Solid	8151A	597124
LCS 480-597124/2-A	Lab Control Sample	Total/NA	Solid	8151A	597124
480-189652-1 MS	TP-3	Total/NA	Solid	8151A	597124
480-189652-1 MSD	TP-3	Total/NA	Solid	8151A	597124

LCMS

Prep Batch: 171565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	SHAKE	
480-189652-2	TP-17	Total/NA	Solid	SHAKE	
480-189652-3	TP-8	Total/NA	Solid	SHAKE	
480-189652-4	TP-1	Total/NA	Solid	SHAKE	
MB 200-171565/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-171565/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-189652-1 MS	TP-3	Total/NA	Solid	SHAKE	
480-189652-1 MSD	TP-3	Total/NA	Solid	SHAKE	
480-189652-2 MS	TP-17	Total/NA	Solid	SHAKE	
480-189652-2 MSD	TP-17	Total/NA	Solid	SHAKE	

Analysis Batch: 171657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	537 (modified)	171565
480-189652-2	TP-17	Total/NA	Solid	537 (modified)	171565
480-189652-3	TP-8	Total/NA	Solid	537 (modified)	171565
480-189652-4	TP-1	Total/NA	Solid	537 (modified)	171565
MB 200-171565/1-A	Method Blank	Total/NA	Solid	537 (modified)	171565
LCS 200-171565/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	171565
480-189652-1 MS	TP-3	Total/NA	Solid	537 (modified)	171565
480-189652-1 MSD	TP-3	Total/NA	Solid	537 (modified)	171565
480-189652-2 MS	TP-17	Total/NA	Solid	537 (modified)	171565
480-189652-2 MSD	TP-17	Total/NA	Solid	537 (modified)	171565

Metals

Prep Batch: 596870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	3050B	
480-189652-2	TP-17	Total/NA	Solid	3050B	
480-189652-3	TP-8	Total/NA	Solid	3050B	
480-189652-4	TP-1	Total/NA	Solid	3050B	
MB 480-596870/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-596870/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-189652-1 MS	TP-3	Total/NA	Solid	3050B	
480-189652-1 MSD	TP-3	Total/NA	Solid	3050B	
480-189652-2 MS	TP-17	Total/NA	Solid	3050B	
480-189652-2 MSD	TP-17	Total/NA	Solid	3050B	

Analysis Batch: 597173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	6010C	596870
480-189652-2	TP-17	Total/NA	Solid	6010C	596870
480-189652-3	TP-8	Total/NA	Solid	6010C	596870
480-189652-4	TP-1	Total/NA	Solid	6010C	596870
MB 480-596870/1-A	Method Blank	Total/NA	Solid	6010C	596870
LCSSRM 480-596870/2-A	Lab Control Sample	Total/NA	Solid	6010C	596870
480-189652-1 MS	TP-3	Total/NA	Solid	6010C	596870
480-189652-1 MSD	TP-3	Total/NA	Solid	6010C	596870
480-189652-2 MS	TP-17	Total/NA	Solid	6010C	596870
480-189652-2 MSD	TP-17	Total/NA	Solid	6010C	596870

Metals

Analysis Batch: 597370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-596870/1-A	Method Blank	Total/NA	Solid	6010C	596870
LCSSRM 480-596870/2-A	Lab Control Sample	Total/NA	Solid	6010C	596870

Prep Batch: 597657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	7471B	
480-189652-2	TP-17	Total/NA	Solid	7471B	
480-189652-3	TP-8	Total/NA	Solid	7471B	
480-189652-4	TP-1	Total/NA	Solid	7471B	
MB 480-597657/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-597657/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-189652-1 MS	TP-3	Total/NA	Solid	7471B	
480-189652-1 MSD	TP-3	Total/NA	Solid	7471B	
480-189652-2 MS	TP-17	Total/NA	Solid	7471B	
480-189652-2 MSD	TP-17	Total/NA	Solid	7471B	

Analysis Batch: 597862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	7471B	597657
480-189652-2	TP-17	Total/NA	Solid	7471B	597657
480-189652-3	TP-8	Total/NA	Solid	7471B	597657
480-189652-4	TP-1	Total/NA	Solid	7471B	597657
MB 480-597657/1-A	Method Blank	Total/NA	Solid	7471B	597657
LCSSRM 480-597657/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	597657
480-189652-1 MS	TP-3	Total/NA	Solid	7471B	597657
480-189652-1 MSD	TP-3	Total/NA	Solid	7471B	597657
480-189652-2 MS	TP-17	Total/NA	Solid	7471B	597657
480-189652-2 MSD	TP-17	Total/NA	Solid	7471B	597657

General Chemistry

Analysis Batch: 596712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189652-1	TP-3	Total/NA	Solid	Moisture	
480-189652-2	TP-17	Total/NA	Solid	Moisture	
480-189652-3	TP-8	Total/NA	Solid	Moisture	
480-189652-4	TP-1	Total/NA	Solid	Moisture	
480-189652-1 MS	TP-3	Total/NA	Solid	Moisture	
480-189652-1 MSD	TP-3	Total/NA	Solid	Moisture	
480-189652-2 MS	TP-17	Total/NA	Solid	Moisture	
480-189652-2 MSD	TP-17	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-3
Date Collected: 09/15/21 09:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: TP-3
Date Collected: 09/15/21 09:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-1
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596664	09/16/21 13:31	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596720	09/17/21 01:16	WJD	TAL BUF
Total/NA	Prep	3550C			596766	09/17/21 08:28	VXF	TAL BUF
Total/NA	Analysis	8270D		1	596941	09/18/21 16:20	JMM	TAL BUF
Total/NA	Prep	3550C			596924	09/18/21 06:17	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597011	09/20/21 11:30	JLS	TAL BUF
Total/NA	Prep	3550C			596753	09/17/21 08:03	JMP	TAL BUF
Total/NA	Analysis	8082A		1	596935	09/18/21 13:55	NC	TAL BUF
Total/NA	Prep	8151A			597124	09/21/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597539	09/23/21 16:06	MAN	TAL BUF
Total/NA	Prep	SHAKE			171565	09/20/21 15:46	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171657	09/22/21 03:37	ND	TAL BUR
Total/NA	Prep	3050B			596870	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597173	09/20/21 22:52	AMH	TAL BUF
Total/NA	Prep	7471B			597657	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 16:40	BMB	TAL BUF

Client Sample ID: TP-17
Date Collected: 09/15/21 10:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: TP-17
Date Collected: 09/15/21 10:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-2
Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596664	09/16/21 13:31	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596720	09/17/21 01:39	WJD	TAL BUF
Total/NA	Prep	3550C			597014	09/20/21 08:01	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597198	09/21/21 15:50	PJQ	TAL BUF
Total/NA	Prep	3550C			596924	09/18/21 06:17	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597011	09/20/21 11:49	JLS	TAL BUF
Total/NA	Prep	3550C			596753	09/17/21 08:03	JMP	TAL BUF
Total/NA	Analysis	8082A		1	596935	09/18/21 14:08	NC	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Client Sample ID: TP-17

Date Collected: 09/15/21 10:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-2

Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			597006	09/20/21 07:12	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597172	09/21/21 20:50	MAN	TAL BUF
Total/NA	Prep	SHAKE			171565	09/20/21 15:46	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171657	09/22/21 04:10	ND	TAL BUR
Total/NA	Prep	3050B			596870	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597173	09/20/21 23:10	AMH	TAL BUF
Total/NA	Prep	7471B			597657	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 16:44	BMB	TAL BUF

Client Sample ID: TP-8

Date Collected: 09/15/21 11:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Client Sample ID: TP-8

Date Collected: 09/15/21 11:00
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-3

Matrix: Solid
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596664	09/16/21 13:31	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596720	09/17/21 02:03	WJD	TAL BUF
Total/NA	Prep	3550C			597014	09/20/21 08:01	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597198	09/21/21 16:13	PJQ	TAL BUF
Total/NA	Prep	3550C			596924	09/18/21 06:17	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597011	09/20/21 12:09	JLS	TAL BUF
Total/NA	Prep	3550C			596753	09/17/21 08:03	JMP	TAL BUF
Total/NA	Analysis	8082A		1	596935	09/18/21 14:21	NC	TAL BUF
Total/NA	Prep	8151A			597006	09/20/21 07:12	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597172	09/21/21 21:49	MAN	TAL BUF
Total/NA	Prep	SHAKE			171565	09/20/21 15:46	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171657	09/22/21 04:35	ND	TAL BUR
Total/NA	Prep	3050B			596870	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597173	09/20/21 23:32	AMH	TAL BUF
Total/NA	Prep	7471B			597657	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 16:50	BMB	TAL BUF

Client Sample ID: TP-1

Date Collected: 09/15/21 12:30
Date Received: 09/15/21 15:30

Lab Sample ID: 480-189652-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596712	09/16/21 16:19	IMZ	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-1
Lab Sample ID: 480-189652-4
Date Collected: 09/15/21 12:30
Matrix: Solid
Date Received: 09/15/21 15:30
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596664	09/16/21 13:31	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596720	09/17/21 02:26	WJD	TAL BUF
Total/NA	Prep	3550C			597014	09/20/21 08:01	VXF	TAL BUF
Total/NA	Analysis	8270D		1	597198	09/21/21 16:37	PJQ	TAL BUF
Total/NA	Prep	3550C			596924	09/18/21 06:17	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597011	09/20/21 12:28	JLS	TAL BUF
Total/NA	Prep	3550C			596753	09/17/21 08:03	JMP	TAL BUF
Total/NA	Analysis	8082A		1	596935	09/18/21 14:34	NC	TAL BUF
Total/NA	Prep	8151A			597006	09/20/21 07:12	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597172	09/21/21 22:18	MAN	TAL BUF
Total/NA	Prep	SHAKE			171565	09/20/21 15:46	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	171657	09/22/21 04:43	ND	TAL BUR
Total/NA	Prep	3050B			596870	09/17/21 15:27	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597173	09/20/21 23:36	AMH	TAL BUF
Total/NA	Prep	7471B			597657	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 16:52	BMB	TAL BUF

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-22

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189652-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189652-1	TP-3	Solid	09/15/21 09:30	09/15/21 15:30
480-189652-2	TP-17	Solid	09/15/21 10:00	09/15/21 15:30
480-189652-3	TP-8	Solid	09/15/21 11:00	09/15/21 15:30
480-189652-4	TP-1	Solid	09/15/21 12:30	09/15/21 15:30

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Bryan Mayback	Site Contact: Ethan Smith	Date: 9/15/21	COC No:
Benchmark-Turnkey Environmental Engineering and Science	Tel/Fax: (716) 844-1699	Lab Contact: Brian Fischer	Carrier:	_____ of _____ COCs
2558 Hamburg Turnpike Suite 300	Analysis Turnaround Time			Sampler:
Lackawanna, NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(716) 856-0599 Phone	TAT if different from Below _____			Walk-in Client:
(716) 856-0583 FAX	☐ 2 weeks ☐ 1 week Standard ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: 3077 Union Rd and Associated Parcels				Job / SDG No.: T0105-017-010
Site: 3077 Union Rd., Orchard Park, NY 14127				
P O # T0105-017010				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCL VOCs	TCL SVOCs	TAL metals	PCBs	Pesticides	Herbicides	1,4-dioxane	PFAS	Sample Specific Notes:
TP-3	9/15/21	0930	G	Soil		Y	X	X	X	X	X	X	X	X	X	MS1/MSD1
TP-17	↓	1000	↓	↓		Y	X	X	X	X	X	X	X	X	X	MS2/MSD2
TP-8		1100					X	X	X	X	X	X	X	X	X	
TP-1		1230		✓			X	X	X	X	X	X	X	X	X	

480-189652 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
CAT B, NYSDEC Equis 3.3 #1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: EMTK	Date/Time: 9/15/21 1530	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: BDS	Company: TAB	Date/Time: 9/15/21 1530

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

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

Chain of Custody Record

480-189652 Chain of Custody

Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	New York
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Job #: 480-189652-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 9/28/2021		
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: 3077 Union Rd Site - Orchard Park, NY	Project #: 48024263		
Site:	SSOW#:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TP-3 (480-189652-1)	9/15/21	09:30 Eastern		Solid			X	1	
MS1 (480-189652-1MS)	9/15/21	09:30 Eastern	MS	Solid			X	1	
MSD1 (480-189652-1MSD)	9/15/21	09:30 Eastern	MSD	Solid			X	1	
TP-17 (480-189652-2)	9/15/21	10:00 Eastern		Solid			X	1	
MS2 (480-189652-2MS)	9/15/21	10:00 Eastern	MS	Solid			X	1	
MSD2 (480-189652-2MSD)	9/15/21	10:00 Eastern	MSD	Solid			X	1	
TP-8 (480-189652-3)	9/15/21	11:00 Eastern		Solid			X	1	
TP-1 (480-189652-4)	9/15/21	12:30 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

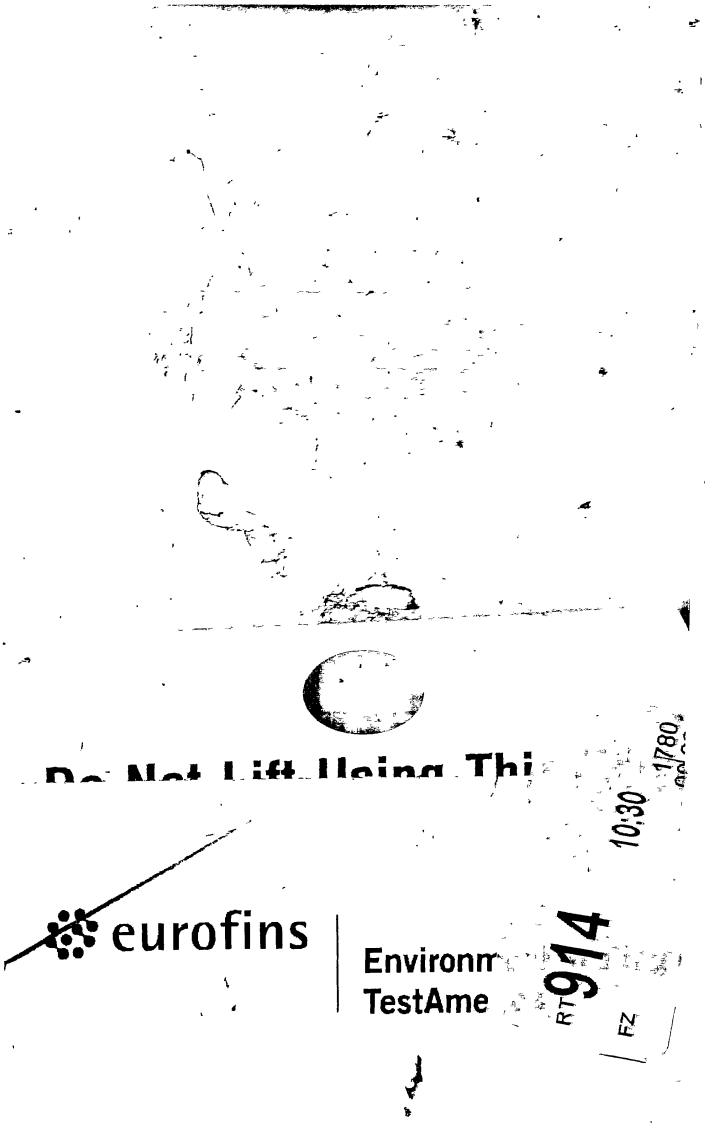
Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

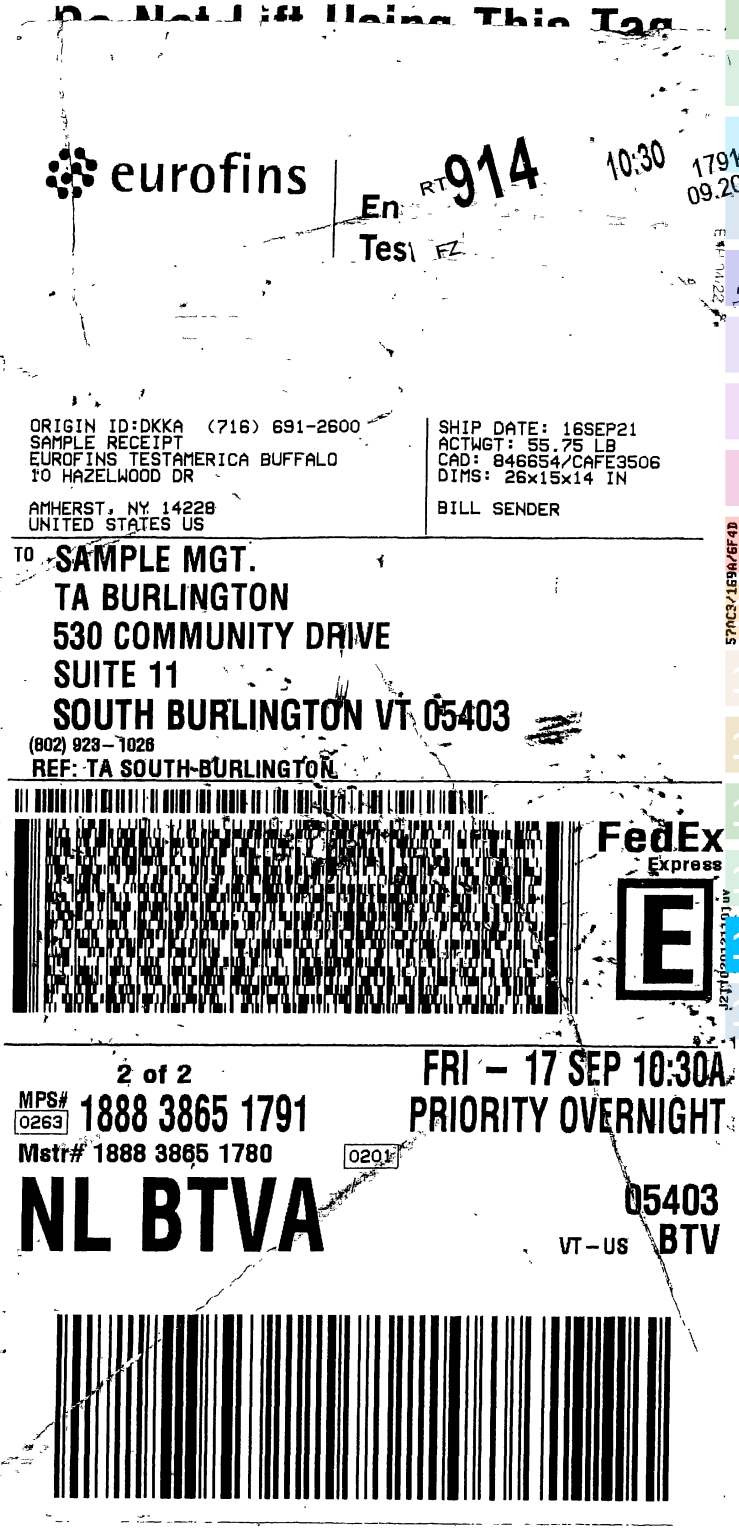
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9/16/21 1700	Company TA	Received by:	Date/Time: 9/20/21 9:15	Company TAL BUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021


eurofins
Environm
TestAme
914
RT
FZ
10:30
1780
ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR
AMHERST, NY 14228
UNITED STATES US
SHIP DATE: 16SEP21
ACTWGT: 55.75 LB
CAD: 846654/CAFE3506
DIMS: 26x15x14 IN
BILL SENDER
TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH BURLINGTON
FedEx
Express
1 of 2
TRK# 0201 1888 3865 1780
MASTER
FRI - 17 SEP 10:30A
PRIORITY OVERNIGHT
NL BTVA
05403
VT US BTV


eurofins
En
Tes
914
RT
FZ
10:30
1791
09.20
ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
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TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH-BURLINGTON
FedEx
Express
2 of 2
MPS# 0263 1888 3865 1791
Mstr# 1888 3865 1780
0201
FRI - 17 SEP 10:30A
PRIORITY OVERNIGHT
NL BTVA
05403
VT-US BTV

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-189652-1

Login Number: 189652
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	freeze time: 1100 9/16
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-189652-1

Login Number: 189652
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington
List Creation: 09/20/21 02:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1512646, 648
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	14.0ºC, 9.5ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-189504-1
Client Project/Site: 3077 Union Rd Site - Orchard Park, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
9/21/2021 12:30:34 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-189504-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-189504-1

Comments
No additional comments.

Receipt
The samples were received on 9/14/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-596678 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The following sample was diluted due to color and appearance: TP-30 4-6 FT (480-189504-4). Elevated reporting limits (RL) are provided.

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

GC Semi VOA
Method 8082A: The following samples are associated with a continuing calibration verification (CCV 480-596293/53) that had recoveries for the surrogate Decachlorobiphenyl that were above acceptance limits: TP-30 4-6 FT (480-189504-4). The secondary surrogate Tetrachloro-m-xylene is within limits. Therefore, the data has been reported.

Method 8082A: The continuing calibration verification (CCV) associated with batch 480-596293 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TP-30 4-6 FT (480-189504-4).

Method 8081B: The following sample was diluted due to the nature of the sample matrix: TP-30 4-6 FT (480-189504-4). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: (480-189504-E-4-B MS) and (480-189504-E-4-C MSD). As such, spike and surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The Serial Dilution (480-189504-D-4-B SD ^5) in batch 480-596796, exhibited results outside the quality control limits for Total Barium, Calcium, Iron, Manganese, and Vanadium. However, the Post Digestion Spike was compliant so no corrective action was necessary.

Method 6010C: The Serial Dilution and Post Spike (480-189504-D-4-B PDS) and (480-189504-D-4-B SD ^5) exceeded the quality control limits for Total Aluminum, Chromium, Magnesium, and Zinc . Sample matrix is suspected, therefore, no corrective action was necessary.

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

LCMS
Method 537 (modified): The method blank for preparation batch 200-171429 and analytical batch 200-171474 contained Perfluorobutanesulfonic acid (PFBS) and Perfluorooctanesulfonic acid (PFOS) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 480-189504-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with sample TP-6 3-4 FT (480-189504-1), TP-22 0-2 FT (480-189504-2) and TP-23 1-3 FT (480-189504-3) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

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

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-6 3-4 FT
Lab Sample ID: 480-189504-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.35	J	4.7	0.29	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	6.0	B	4.7	2.2	ug/Kg	1	☼	8260C	Total/NA
beta-BHC	0.62	J	1.8	0.33	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.18	J	0.56	0.18	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.028	J	0.22	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.052	J	0.22	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.027	J B	0.22	0.010	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.030	J I	0.22	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.061	J I B	0.22	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.016	J	0.22	0.013	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	21200		11.1	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.7		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	47.9		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.92		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.28		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	3440		55.4	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	33.9		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	23.8		0.55	0.055	mg/Kg	1	☼	6010C	Total/NA
Copper	21.2		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	32600		11.1	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	6.4		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7050		22.2	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	373	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	59.1		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	2510		33.2	22.2	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.9	J	4.4	0.44	mg/Kg	1	☼	6010C	Total/NA
Sodium	61.8	J B	155	14.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	31.2		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	59.1		2.2	0.71	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.034		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-22 0-2 FT
Lab Sample ID: 480-189504-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J	25	4.2	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	4.5	J B	5.0	2.3	ug/Kg	1	☼	8260C	Total/NA
4,4'-DDD	1.6	J	2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDE	1.3	J	2.0	0.41	ug/Kg	1	☼	8081B	Total/NA
beta-BHC	0.61	J	2.0	0.35	ug/Kg	1	☼	8081B	Total/NA
Dieldrin	0.53	J	2.0	0.47	ug/Kg	1	☼	8081B	Total/NA
Endosulfan I	1.0	J	2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.036	J	0.24	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.014	J B	0.24	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.018	J	0.24	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.052	J I B	0.24	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	19500		12.7	5.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.6		2.5	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	52.5		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.0		0.25	0.036	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.26		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-22 0-2 FT (Continued)
Lab Sample ID: 480-189504-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2110		63.6	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	29.1		0.64	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.5		0.64	0.064	mg/Kg	1	☼	6010C	Total/NA
Copper	19.2		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	23300		12.7	4.5	mg/Kg	1	☼	6010C	Total/NA
Lead	5.6		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4920		25.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	932	B	0.25	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	61.1		6.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2280		38.2	25.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.2	J	5.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Sodium	56.0	J B	178	16.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	28.0		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	53.6		2.5	0.81	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.043		0.021	0.0048	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-23 1-3 FT
Lab Sample ID: 480-189504-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.5	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	4.3	J B	4.6	2.1	ug/Kg	1	☼	8260C	Total/NA
Endrin ketone	0.48	J	1.9	0.45	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.18	J	0.55	0.18	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.026	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.089	J	0.22	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.015	J B	0.22	0.010	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.016	J	0.22	0.015	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.076	J I B	0.22	0.018	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	13900		11.5	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.6		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	37.4		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.78		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.19	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	192		57.3	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	17.4		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	11.3		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	25.2		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	17300		11.5	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	9.5		1.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2940		22.9	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	252	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	39.2		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1630		34.4	22.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.5	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Sodium	54.4	J B	161	14.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.3		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	55.5		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.038		0.018	0.0040	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-30 4-6 FT
Lab Sample ID: 480-189504-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.49	J	6.0	0.37	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	7.9	B	6.0	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]pyrene	250	J	900	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	350	J	900	140	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	360	J	900	96	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	130	J	900	110	ug/Kg	5	☼	8270D	Total/NA
Pyrene	320	J	900	110	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	9.8	J	36	8.4	ug/Kg	20	☼	8081B	Total/NA
PCB-1254	0.36		0.26	0.12	mg/Kg	1	☼	8082A	Total/NA
Perfluorohexanoic acid (PFHxA)	0.037	J	0.21	0.023	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.10	J	0.21	0.026	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.029	J	0.21	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.019	J	0.21	0.012	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.012	J B	0.21	0.0096	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.041	J	0.21	0.014	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.87	B	0.21	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.072	J	2.1	0.047	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	13800		11.6	5.1	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.83	J F1	17.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Arsenic	9.7		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	137	F1	0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.1		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.3		0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Calcium	53800		57.8	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	112	F1 F2	0.58	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	10.2		0.58	0.058	mg/Kg	1	☼	6010C	Total/NA
Copper	59.7	F2	1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	41900	F2	11.6	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	218	F2	1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	8680	F1	23.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	2640	F2 B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	48.4		5.8	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1900	F1	34.7	23.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	4.0	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Silver	0.37	J	0.69	0.23	mg/Kg	1	☼	6010C	Total/NA
Sodium	212	B	162	15.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	54.5	F1 F2	0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	210		2.3	0.74	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.12		0.018	0.0041	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-34 0-2 FT
Lab Sample ID: 480-189504-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25	J	38	6.4	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.5	J B	7.6	3.5	ug/Kg	1	☼	8260C	Total/NA
Fluoranthene	22	J	210	22	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	0.93	J	2.1	0.43	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	1.0	J	2.1	0.51	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	1.7	J	2.1	0.42	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanoic acid (PFBA)	0.31	J	0.60	0.19	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.068	J	0.24	0.047	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-34 0-2 FT (Continued)
Lab Sample ID: 480-189504-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.090	J	0.24	0.027	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.078	J	0.24	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.38		0.24	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.097	J	0.24	0.022	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.032	J	0.24	0.015	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.034	J	0.24	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.034	J B	0.24	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.036	J	0.24	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.38	B	0.24	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	21000		12.8	5.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.4		2.6	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	45.9		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.66		0.26	0.036	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.40		0.26	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	622		64.0	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	27.9		0.64	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.2		0.64	0.064	mg/Kg	1	☼	6010C	Total/NA
Copper	20.7		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	27500		12.8	4.5	mg/Kg	1	☼	6010C	Total/NA
Lead	25.5		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	4150		25.6	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	195	B	0.26	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	28.0		6.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2260		38.4	25.6	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.9	J	5.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Sodium	60.5	J B	179	16.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	37.3		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	78.9		2.6	0.82	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.072		0.027	0.0062	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-6 3-4 FT
Date Collected: 09/13/21 12:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-1
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.7	0.34	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.76	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,1,2-Trichloroethane	ND		4.7	0.61	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,1-Dichloroethane	ND		4.7	0.57	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,1-Dichloroethene	ND		4.7	0.57	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,2,4-Trichlorobenzene	ND		4.7	0.28	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,2-Dibromo-3-Chloropropane	ND		4.7	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,2-Dibromoethane	ND		4.7	0.60	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,2-Dichlorobenzene	ND		4.7	0.37	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,2-Dichloroethane	ND		4.7	0.23	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,2-Dichloropropane	ND		4.7	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,3-Dichlorobenzene	ND		4.7	0.24	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
1,4-Dichlorobenzene	ND		4.7	0.65	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Acetone	**8.0**	**J**	23	3.9	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Benzene	ND		4.7	0.23	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Bromodichloromethane	ND		4.7	0.63	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Bromoform	ND		4.7	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Bromomethane	ND		4.7	0.42	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Carbon disulfide	ND		4.7	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Carbon tetrachloride	ND		4.7	0.45	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Chlorobenzene	ND		4.7	0.62	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Chloroethane	ND		4.7	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Chloroform	**0.35**	**J**	4.7	0.29	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Chloromethane	ND		4.7	0.28	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
cis-1,2-Dichloroethene	ND		4.7	0.60	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
cis-1,3-Dichloropropene	ND		4.7	0.67	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Cyclohexane	ND		4.7	0.65	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Dibromochloromethane	ND		4.7	0.60	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Dichlorodifluoromethane	ND		4.7	0.39	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Ethylbenzene	ND		4.7	0.32	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Isopropylbenzene	ND		4.7	0.71	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Methyl tert-butyl ether	ND		4.7	0.46	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Methylcyclohexane	ND		4.7	0.71	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Methylene Chloride	**6.0**	**B**	4.7	2.2	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Styrene	ND		4.7	0.23	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Tetrachloroethene	ND		4.7	0.63	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Toluene	ND		4.7	0.35	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
trans-1,2-Dichloroethene	ND		4.7	0.48	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
trans-1,3-Dichloropropene	ND		4.7	2.1	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Trichloroethene	ND		4.7	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Trichlorofluoromethane	ND		4.7	0.44	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Vinyl chloride	ND		4.7	0.57	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1
Xylenes, Total	ND		9.4	0.79	ug/Kg	☼	09/14/21 12:01	09/14/21 20:41	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-6 3-4 FT
Date Collected: 09/13/21 12:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-1
Matrix: Solid
Percent Solids: 88.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*09/14/21 12:01*	*09/14/21 20:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*09/14/21 12:01*	*09/14/21 20:41*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*09/14/21 12:01*	*09/14/21 20:41*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*09/14/21 12:01*	*09/14/21 20:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	62	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2-Chlorophenol	ND		370	35	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2-Methylphenol	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4-Methylphenol	ND		370	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Acenaphthene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Acenaphthylene	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Acetophenone	ND		190	26	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Anthracene	ND		190	47	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Atrazine	ND		190	66	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Benzaldehyde	ND		190	150	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Biphenyl	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Caprolactam	ND		190	57	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Carbazole	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-6 3-4 FT
Lab Sample ID: 480-189504-1
Date Collected: 09/13/21 12:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		190	43	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Dibenzofuran	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Fluoranthene	ND		190	20	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Fluorene	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Hexachloroethane	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Isophorone	ND		190	40	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Naphthalene	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Nitrobenzene	ND		190	21	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Phenanthrene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Phenol	ND		190	29	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1
Pyrene	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*54 - 120*	*09/15/21 06:51*	*09/16/21 19:21*	*1*
2-Fluorobiphenyl	*100*		*60 - 120*	*09/15/21 06:51*	*09/16/21 19:21*	*1*
2-Fluorophenol	*85*		*52 - 120*	*09/15/21 06:51*	*09/16/21 19:21*	*1*
Nitrobenzene-d5	*87*		*53 - 120*	*09/15/21 06:51*	*09/16/21 19:21*	*1*
Phenol-d5	*90*		*54 - 120*	*09/15/21 06:51*	*09/16/21 19:21*	*1*
p-Terphenyl-d14	*111*		*79 - 130*	*09/15/21 06:51*	*09/16/21 19:21*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.36	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
4,4'-DDE	ND		1.8	0.39	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
4,4'-DDT	ND		1.8	0.43	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Aldrin	ND		1.8	0.45	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
alpha-BHC	ND		1.8	0.33	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
beta-BHC	**0.62**	**J**	1.8	0.33	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
cis-Chlordane	ND		1.8	0.92	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
delta-BHC	ND		1.8	0.34	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Dieldrin	ND		1.8	0.44	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Endosulfan I	ND		1.8	0.35	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Endosulfan II	ND		1.8	0.33	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Endosulfan sulfate	ND		1.8	0.34	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Endrin	ND		1.8	0.36	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Endrin aldehyde	ND		1.8	0.47	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Endrin ketone	ND		1.8	0.45	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
gamma-BHC (Lindane)	ND		1.8	0.34	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-6 3-4 FT
Lab Sample ID: 480-189504-1
Date Collected: 09/13/21 12:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 88.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.8	0.40	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Heptachlor epoxide	ND		1.8	0.47	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Methoxychlor	ND		1.8	0.38	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
Toxaphene	ND		18	11	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1
trans-Chlordane	ND		1.8	0.58	ug/Kg	☼	09/14/21 14:17	09/15/21 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*45 - 120*	*09/14/21 14:17*	*09/15/21 10:50*	*1*
DCB Decachlorobiphenyl	*109*		*45 - 120*	*09/14/21 14:17*	*09/15/21 10:50*	*1*
Tetrachloro-m-xylene	*88*		*30 - 124*	*09/14/21 14:17*	*09/15/21 10:50*	*1*
Tetrachloro-m-xylene	*109*		*30 - 124*	*09/14/21 14:17*	*09/15/21 10:50*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	09/14/21 14:22	09/15/21 01:16	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	09/14/21 14:22	09/15/21 01:16	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	09/14/21 14:22	09/15/21 01:16	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	09/14/21 14:22	09/15/21 01:16	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	09/14/21 14:22	09/15/21 01:16	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/14/21 14:22	09/15/21 01:16	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	09/14/21 14:22	09/15/21 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*120*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:16*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:16*	*1*
DCB Decachlorobiphenyl	*164*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:16*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:16*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	5.9	ug/Kg	☼	09/14/21 14:13	09/16/21 21:16	1
2,4-D	ND		19	12	ug/Kg	☼	09/14/21 14:13	09/16/21 21:16	1
Silvex (2,4,5-TP)	ND		19	6.7	ug/Kg	☼	09/14/21 14:13	09/16/21 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*58*		*28 - 129*	*09/14/21 14:13*	*09/16/21 21:16*	*1*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*09/14/21 14:13*	*09/16/21 21:16*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.18**	**J**	0.56	0.18	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluoropentanoic acid (PFPeA)	ND		0.22	0.044	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorohexanoic acid (PFHxA)	ND		0.22	0.025	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluoroheptanoic acid (PFHpA)	**0.028**	**J**	0.22	0.022	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorooctanoic acid (PFOA)	**0.052**	**J**	0.22	0.028	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorononanoic acid (PFNA)	ND		0.22	0.020	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorodecanoic acid (PFDA)	ND		0.22	0.013	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.022	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorododecanoic acid (PFDoA)	ND		0.22	0.024	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.026	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1

Client Sample ID: TP-6 3-4 FT
Lab Sample ID: 480-189504-1

Date Collected: 09/13/21 12:00
Matrix: Solid

Date Received: 09/14/21 08:00
Percent Solids: 88.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.027**	**J B**	0.22	0.010	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorohexanesulfonic acid (PFHxS)	**0.030**	**J I**	0.22	0.016	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.22	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorooctanesulfonic acid (PFOS)	**0.061**	**J I B**	0.22	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorodecanesulfonic acid (PFDS)	**0.016**	**J**	0.22	0.013	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.019	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.041	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.052	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.2	0.035	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.2	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 16:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*66*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C4 PFHpA	*76*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C4 PFOA	*76*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C4 PFOS	*64*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C5 PFNA	*72*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C4 PFBA	*71*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C2 PFHxA	*74*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C2 PFDA	*79*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C2 PFUnA	*68*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C2 PFDoA	*71*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C8 FOSA	*66*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C5 PFPeA	*76*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C2 PFTeDA	*69*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
d3-NMeFOSAA	*70*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
d5-NEtFOSAA	*67*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
M2-6:2 FTS	*71*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
M2-8:2 FTS	*69*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*
13C3 PFBS	*68*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21200**		11.1	4.9	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Antimony	ND		16.6	0.44	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Arsenic	**3.7**		2.2	0.44	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Barium	**47.9**		0.55	0.12	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Beryllium	**0.92**		0.22	0.031	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Cadmium	**0.28**		0.22	0.033	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Calcium	**3440**		55.4	3.7	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Chromium	**33.9**		0.55	0.22	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Cobalt	**23.8**		0.55	0.055	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Copper	**21.2**		1.1	0.23	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Iron	**32600**		11.1	3.9	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-6 3-4 FT
Lab Sample ID: 480-189504-1
Date Collected: 09/13/21 12:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 88.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.4		1.1	0.27	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Magnesium	7050		22.2	1.0	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Manganese	373	B	0.22	0.035	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Nickel	59.1		5.5	0.25	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Potassium	2510		33.2	22.2	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Selenium	2.9	J	4.4	0.44	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Silver	ND		0.66	0.22	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Sodium	61.8	J B	155	14.4	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Thallium	ND		6.6	0.33	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Vanadium	31.2		0.55	0.12	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1
Zinc	59.1		2.2	0.71	mg/Kg	☼	09/15/21 16:43	09/16/21 17:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.024	0.0054	mg/Kg	☼	09/16/21 14:16	09/16/21 16:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-22 0-2 FT
Date Collected: 09/13/21 11:30
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-2
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Acetone	**5.6**	**J**	25	4.2	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Benzene	ND		5.0	0.24	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Chlorobenzene	ND		5.0	0.66	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Chloroform	ND		5.0	0.31	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Cyclohexane	ND		5.0	0.70	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Ethylbenzene	ND		5.0	0.34	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Methyl acetate	ND		25	3.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Methylene Chloride	**4.5**	**J B**	5.0	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Styrene	ND		5.0	0.25	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Toluene	ND		5.0	0.38	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
trans-1,2-Dichloroethene	ND		5.0	0.51	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Trichloroethene	ND		5.0	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Vinyl chloride	ND		5.0	0.61	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1
Xylenes, Total	ND		10	0.84	ug/Kg	☼	09/14/21 12:01	09/14/21 21:04	1

Client Sample ID: TP-22 0-2 FT
Date Collected: 09/13/21 11:30
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-2
Matrix: Solid
Percent Solids: 83.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*09/14/21 12:01*	*09/14/21 21:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*09/14/21 12:01*	*09/14/21 21:04*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*09/14/21 12:01*	*09/14/21 21:04*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*09/14/21 12:01*	*09/14/21 21:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	65	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2-Chlorophenol	ND		390	36	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2-Methylphenol	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4-Methylphenol	ND		390	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Acenaphthene	ND		200	29	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Acenaphthylene	ND		200	26	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Acetophenone	ND		200	27	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Anthracene	ND		200	49	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Atrazine	ND		200	69	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Benzaldehyde	ND		200	160	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Biphenyl	ND		200	29	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Caprolactam	ND		200	60	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Carbazole	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-22 0-2 FT
Lab Sample ID: 480-189504-2
Date Collected: 09/13/21 11:30
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		200	45	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Dibenzofuran	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Fluoranthene	ND		200	21	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Fluorene	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Hexachloroethane	ND		200	26	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Isophorone	ND		200	42	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Naphthalene	ND		200	26	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Nitrobenzene	ND		200	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Phenanthrene	ND		200	29	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Phenol	ND		200	31	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1
Pyrene	ND		200	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*54 - 120*	*09/15/21 06:51*	*09/16/21 20:08*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*09/15/21 06:51*	*09/16/21 20:08*	*1*
2-Fluorophenol	*78*		*52 - 120*	*09/15/21 06:51*	*09/16/21 20:08*	*1*
Nitrobenzene-d5	*81*		*53 - 120*	*09/15/21 06:51*	*09/16/21 20:08*	*1*
Phenol-d5	*87*		*54 - 120*	*09/15/21 06:51*	*09/16/21 20:08*	*1*
p-Terphenyl-d14	*105*		*79 - 130*	*09/15/21 06:51*	*09/16/21 20:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.6**	**J**	2.0	0.38	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
4,4'-DDE	**1.3**	**J**	2.0	0.41	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
beta-BHC	**0.61**	**J**	2.0	0.35	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
cis-Chlordane	ND		2.0	0.98	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
delta-BHC	ND		2.0	0.36	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Dieldrin	**0.53**	**J**	2.0	0.47	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Endosulfan I	**1.0**	**J**	2.0	0.38	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Endrin	ND		2.0	0.39	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Endrin ketone	ND		2.0	0.48	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-22 0-2 FT
Lab Sample ID: 480-189504-2
Date Collected: 09/13/21 11:30
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 83.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.42	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
Toxaphene	ND		20	11	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1
trans-Chlordane	ND		2.0	0.62	ug/Kg	☼	09/14/21 14:17	09/15/21 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*45 - 120*	*09/14/21 14:17*	*09/15/21 11:09*	*1*
DCB Decachlorobiphenyl	*127*	*S1+*	*45 - 120*	*09/14/21 14:17*	*09/15/21 11:09*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*09/14/21 14:17*	*09/15/21 11:09*	*1*
Tetrachloro-m-xylene	*108*		*30 - 124*	*09/14/21 14:17*	*09/15/21 11:09*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	09/14/21 14:22	09/15/21 01:29	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	09/14/21 14:22	09/15/21 01:29	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	09/14/21 14:22	09/15/21 01:29	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	09/14/21 14:22	09/15/21 01:29	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	09/14/21 14:22	09/15/21 01:29	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	09/14/21 14:22	09/15/21 01:29	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	09/14/21 14:22	09/15/21 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*130*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:29*	*1*
Tetrachloro-m-xylene	*123*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:29*	*1*
DCB Decachlorobiphenyl	*170*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:29*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:29*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	09/14/21 14:13	09/16/21 20:46	1
2,4-D	ND		20	12	ug/Kg	☼	09/14/21 14:13	09/16/21 20:46	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	09/14/21 14:13	09/16/21 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*62*		*28 - 129*	*09/14/21 14:13*	*09/16/21 20:46*	*1*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*09/14/21 14:13*	*09/16/21 20:46*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.60	0.19	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluoropentanoic acid (PFPeA)	ND		0.24	0.047	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorohexanoic acid (PFHxA)	ND		0.24	0.026	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluoroheptanoic acid (PFHpA)	ND		0.24	0.024	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorooctanoic acid (PFOA)	**0.036**	**J**	0.24	0.030	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorononanoic acid (PFNA)	ND		0.24	0.021	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorodecanoic acid (PFDA)	ND		0.24	0.014	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluoroundecanoic acid (PFUnA)	ND		0.24	0.024	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorododecanoic acid (PFDoA)	ND		0.24	0.025	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorotridecanoic acid (PFTriA)	ND		0.24	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.027	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1

Client Sample ID: TP-22 0-2 FT
Lab Sample ID: 480-189504-2
Date Collected: 09/13/21 11:30
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 83.2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.014**	**J B**	0.24	0.011	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorohexanesulfonic acid (PFHxS)	**0.018**	**J**	0.24	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorooctanesulfonic acid (PFOS)	**0.052**	**J I B**	0.24	0.019	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.014	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.020	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.044	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.055	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.4	0.037	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.4	0.019	ug/Kg	☼	09/16/21 16:16	09/17/21 17:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*66*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C4 PFHpA	*76*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C4 PFOA	*77*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C4 PFOS	*62*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C5 PFNA	*71*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C4 PFBA	*71*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C2 PFHxA	*72*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C2 PFDA	*73*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C2 PFUnA	*67*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C2 PFDoA	*69*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C8 FOSA	*65*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C5 PFPeA	*74*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C2 PFTeDA	*69*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
d3-NMeFOSAA	*69*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
d5-NEtFOSAA	*67*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
M2-6:2 FTS	*70*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
M2-8:2 FTS	*65*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*
13C3 PFBS	*69*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19500**		12.7	5.6	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Antimony	ND		19.1	0.51	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Arsenic	**2.6**		2.5	0.51	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Barium	**52.5**		0.64	0.14	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Beryllium	**1.0**		0.25	0.036	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Cadmium	**0.26**		0.25	0.038	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Calcium	**2110**		63.6	4.2	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Chromium	**29.1**		0.64	0.25	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Cobalt	**15.5**		0.64	0.064	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Copper	**19.2**		1.3	0.27	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Iron	**23300**		12.7	4.5	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-22 0-2 FT
Date Collected: 09/13/21 11:30
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-2
Matrix: Solid
Percent Solids: 83.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.6		1.3	0.31	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Magnesium	4920		25.4	1.2	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Manganese	932	B	0.25	0.041	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Nickel	61.1		6.4	0.29	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Potassium	2280		38.2	25.4	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Selenium	2.2	J	5.1	0.51	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Silver	ND		0.76	0.25	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Sodium	56.0	J B	178	16.5	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Thallium	ND		7.6	0.38	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Vanadium	28.0		0.64	0.14	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1
Zinc	53.6		2.5	0.81	mg/Kg	☼	09/15/21 16:43	09/16/21 17:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.021	0.0048	mg/Kg	☼	09/16/21 14:16	09/16/21 16:10	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-23 1-3 FT
Date Collected: 09/13/21 10:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-3
Matrix: Solid
Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.75	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Acetone	**8.5**	**J**	23	3.9	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Benzene	ND		4.6	0.23	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Carbon tetrachloride	ND		4.6	0.45	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Methylene Chloride	**4.3**	**J B**	4.6	2.1	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Styrene	ND		4.6	0.23	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Toluene	ND		4.6	0.35	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Trichlorofluoromethane	ND		4.6	0.44	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	09/14/21 12:01	09/14/21 21:28	1

Client Sample ID: TP-23 1-3 FT
Lab Sample ID: 480-189504-3

Date Collected: 09/13/21 10:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 89.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*09/14/21 12:01*	*09/14/21 21:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*09/14/21 12:01*	*09/14/21 21:28*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*09/14/21 12:01*	*09/14/21 21:28*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*09/14/21 12:01*	*09/14/21 21:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	61	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2,4,6-Trichlorophenol	ND		190	37	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2,4-Dinitrophenol	ND		1800	860	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2-Chlorophenol	ND		360	34	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2-Methylnaphthalene	ND		190	37	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2-Methylphenol	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2-Nitroaniline	ND		360	28	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
3-Nitroaniline	ND		360	52	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4-Bromophenyl phenyl ether	ND		190	26	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4-Methylphenol	ND		360	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4-Nitroaniline	ND		360	98	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Acenaphthene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Acenaphthylene	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Acetophenone	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Anthracene	ND		190	46	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Atrazine	ND		190	65	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Benzaldehyde	ND		190	150	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Biphenyl	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
bis (2-chloroisopropyl) ether	ND		190	37	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Caprolactam	ND		190	56	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Carbazole	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-23 1-3 FT
Lab Sample ID: 480-189504-3
Date Collected: 09/13/21 10:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 89.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		190	42	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Dibenzofuran	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Fluoranthene	ND		190	20	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Fluorene	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Hexachloroethane	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Isophorone	ND		190	40	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Naphthalene	ND		190	24	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Nitrobenzene	ND		190	21	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Phenanthrene	ND		190	28	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Phenol	ND		190	29	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1
Pyrene	ND		190	22	ug/Kg	☼	09/15/21 06:51	09/16/21 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*54 - 120*	*09/15/21 06:51*	*09/16/21 20:32*	*1*
2-Fluorobiphenyl	*96*		*60 - 120*	*09/15/21 06:51*	*09/16/21 20:32*	*1*
2-Fluorophenol	*75*		*52 - 120*	*09/15/21 06:51*	*09/16/21 20:32*	*1*
Nitrobenzene-d5	*85*		*53 - 120*	*09/15/21 06:51*	*09/16/21 20:32*	*1*
Phenol-d5	*85*		*54 - 120*	*09/15/21 06:51*	*09/16/21 20:32*	*1*
p-Terphenyl-d14	*111*		*79 - 130*	*09/15/21 06:51*	*09/16/21 20:32*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.36	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
4,4'-DDE	ND		1.9	0.39	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
4,4'-DDT	ND		1.9	0.43	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Aldrin	ND		1.9	0.45	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
alpha-BHC	ND		1.9	0.33	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
beta-BHC	ND		1.9	0.33	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
cis-Chlordane	ND		1.9	0.92	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
delta-BHC	ND		1.9	0.34	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Dieldrin	ND		1.9	0.44	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Endosulfan I	ND		1.9	0.35	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Endosulfan II	ND		1.9	0.33	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Endosulfan sulfate	ND		1.9	0.34	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Endrin	ND		1.9	0.37	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Endrin aldehyde	ND		1.9	0.47	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Endrin ketone	**0.48**	**J**	1.9	0.45	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
gamma-BHC (Lindane)	ND		1.9	0.34	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-23 1-3 FT
Lab Sample ID: 480-189504-3
Date Collected: 09/13/21 10:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 89.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.40	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Heptachlor epoxide	ND		1.9	0.48	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
Toxaphene	ND		19	11	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1
trans-Chlordane	ND		1.9	0.59	ug/Kg	☼	09/14/21 14:17	09/15/21 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*45 - 120*	*09/14/21 14:17*	*09/15/21 11:29*	*1*
DCB Decachlorobiphenyl	*85*		*45 - 120*	*09/14/21 14:17*	*09/15/21 11:29*	*1*
Tetrachloro-m-xylene	*81*		*30 - 124*	*09/14/21 14:17*	*09/15/21 11:29*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*09/14/21 14:17*	*09/15/21 11:29*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	09/14/21 14:22	09/15/21 01:41	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	09/14/21 14:22	09/15/21 01:41	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	09/14/21 14:22	09/15/21 01:41	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	09/14/21 14:22	09/15/21 01:41	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	09/14/21 14:22	09/15/21 01:41	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	09/14/21 14:22	09/15/21 01:41	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	09/14/21 14:22	09/15/21 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:41*	*1*
Tetrachloro-m-xylene	*109*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:41*	*1*
DCB Decachlorobiphenyl	*163*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:41*	*1*
DCB Decachlorobiphenyl	*126*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:41*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.9	ug/Kg	☼	09/14/21 14:13	09/16/21 21:45	1
2,4-D	ND		18	12	ug/Kg	☼	09/14/21 14:13	09/16/21 21:45	1
Silvex (2,4,5-TP)	ND		18	6.6	ug/Kg	☼	09/14/21 14:13	09/16/21 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*	*09/14/21 14:13*	*09/16/21 21:45*	*1*
2,4-Dichlorophenylacetic acid	*86*		*28 - 129*	*09/14/21 14:13*	*09/16/21 21:45*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.18**	**J**	0.55	0.18	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluoropentanoic acid (PFPeA)	ND		0.22	0.043	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorohexanoic acid (PFHxA)	**0.026**	**J**	0.22	0.024	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.022	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorooctanoic acid (PFOA)	**0.089**	**J**	0.22	0.028	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorononanoic acid (PFNA)	ND		0.22	0.020	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorodecanoic acid (PFDA)	ND		0.22	0.013	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.022	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorododecanoic acid (PFDoA)	ND		0.22	0.023	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.025	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1

Client Sample ID: TP-23 1-3 FT
Lab Sample ID: 480-189504-3
Date Collected: 09/13/21 10:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 89.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.015**	**J B**	0.22	0.010	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorohexanesulfonic acid (PFHxS)	**0.016**	**J**	0.22	0.015	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.22	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorooctanesulfonic acid (PFOS)	**0.076**	**J I B**	0.22	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.013	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.019	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.041	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.051	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.2	0.034	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.2	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 17:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*84*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C4 PFHpA	*81*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C4 PFOA	*78*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C4 PFOS	*80*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C5 PFNA	*75*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C4 PFBA	*77*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C2 PFHxA	*80*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C2 PFDA	*76*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C2 PFUnA	*73*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C2 PFDoA	*71*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C8 FOSA	*79*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C5 PFPeA	*83*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C2 PFTeDA	*59*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
d3-NMeFOSAA	*66*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
d5-NEtFOSAA	*71*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
M2-6:2 FTS	*89*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
M2-8:2 FTS	*81*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*
13C3 PFBS	*87*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13900**		11.5	5.0	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Antimony	ND		17.2	0.46	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Arsenic	**4.6**		2.3	0.46	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Barium	**37.4**		0.57	0.13	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Beryllium	**0.78**		0.23	0.032	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Cadmium	**0.19**	**J**	0.23	0.034	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Calcium	**192**		57.3	3.8	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Chromium	**17.4**		0.57	0.23	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Cobalt	**11.3**		0.57	0.057	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Copper	**25.2**		1.1	0.24	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Iron	**17300**		11.5	4.0	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-23 1-3 FT
Lab Sample ID: 480-189504-3
Date Collected: 09/13/21 10:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 89.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.5		1.1	0.28	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Magnesium	2940		22.9	1.1	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Manganese	252	B	0.23	0.037	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Nickel	39.2		5.7	0.26	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Potassium	1630		34.4	22.9	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Selenium	1.5	J	4.6	0.46	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Silver	ND		0.69	0.23	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Sodium	54.4	J B	161	14.9	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Thallium	ND		6.9	0.34	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Vanadium	22.3		0.57	0.13	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1
Zinc	55.5		2.3	0.73	mg/Kg	☼	09/15/21 16:43	09/16/21 17:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0040	mg/Kg	☼	09/16/21 14:16	09/16/21 16:11	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-30 4-6 FT
Date Collected: 09/13/21 11:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-4
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.0	0.44	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,1,2,2-Tetrachloroethane	ND		6.0	0.98	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0	1.4	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,1,2-Trichloroethane	ND		6.0	0.78	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,1-Dichloroethane	ND		6.0	0.74	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,1-Dichloroethene	ND		6.0	0.74	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,2,4-Trichlorobenzene	ND		6.0	0.37	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,2-Dibromo-3-Chloropropane	ND		6.0	3.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,2-Dibromoethane	ND		6.0	0.77	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,2-Dichlorobenzene	ND		6.0	0.47	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,2-Dichloroethane	ND		6.0	0.30	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,2-Dichloropropane	ND		6.0	3.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,3-Dichlorobenzene	ND		6.0	0.31	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
1,4-Dichlorobenzene	ND		6.0	0.84	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
2-Butanone (MEK)	ND		30	2.2	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
2-Hexanone	ND		30	3.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
4-Methyl-2-pentanone (MIBK)	ND		30	2.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Acetone	ND		30	5.1	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Benzene	ND		6.0	0.30	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Bromodichloromethane	ND		6.0	0.81	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Bromoform	ND		6.0	3.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Bromomethane	ND		6.0	0.54	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Carbon disulfide	ND		6.0	3.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Carbon tetrachloride	ND		6.0	0.58	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Chlorobenzene	ND		6.0	0.80	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Chloroethane	ND		6.0	1.4	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Chloroform	**0.49**	**J**	6.0	0.37	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Chloromethane	ND		6.0	0.36	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
cis-1,2-Dichloroethene	ND		6.0	0.77	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
cis-1,3-Dichloropropene	ND		6.0	0.87	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Cyclohexane	ND		6.0	0.84	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Dibromochloromethane	ND		6.0	0.77	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Dichlorodifluoromethane	ND		6.0	0.50	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Ethylbenzene	ND		6.0	0.42	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Isopropylbenzene	ND		6.0	0.91	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Methyl acetate	ND		30	3.6	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Methyl tert-butyl ether	ND		6.0	0.59	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Methylcyclohexane	ND		6.0	0.92	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Methylene Chloride	**7.9**	**B**	6.0	2.8	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Styrene	ND		6.0	0.30	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Tetrachloroethene	ND		6.0	0.81	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Toluene	ND		6.0	0.46	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
trans-1,2-Dichloroethene	ND		6.0	0.62	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
trans-1,3-Dichloropropene	ND		6.0	2.7	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Trichloroethene	ND		6.0	1.3	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Trichlorofluoromethane	ND		6.0	0.57	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Vinyl chloride	ND		6.0	0.74	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 21:51	1

Client Sample ID: TP-30 4-6 FT
Lab Sample ID: 480-189504-4

Date Collected: 09/13/21 11:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 91.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*09/14/21 12:01*	*09/14/21 21:51*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*09/14/21 12:01*	*09/14/21 21:51*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*09/14/21 12:01*	*09/14/21 21:51*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*09/14/21 12:01*	*09/14/21 21:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		530	290	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2,4,5-Trichlorophenol	ND		900	240	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2,4,6-Trichlorophenol	ND		900	180	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2,4-Dichlorophenol	ND		900	96	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2,4-Dimethylphenol	ND		900	220	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2,4-Dinitrophenol	ND		8800	4200	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2,4-Dinitrotoluene	ND		900	190	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2,6-Dinitrotoluene	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2-Chloronaphthalene	ND		900	150	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2-Chlorophenol	ND		1800	160	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2-Methylnaphthalene	ND		900	180	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2-Methylphenol	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2-Nitroaniline	ND		1800	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
2-Nitrophenol	ND		900	260	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
3-Nitroaniline	ND		1800	250	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4,6-Dinitro-2-methylphenol	ND		1800	900	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4-Bromophenyl phenyl ether	ND		900	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4-Chloro-3-methylphenol	ND		900	220	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4-Chloroaniline	ND		900	220	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4-Chlorophenyl phenyl ether	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4-Nitroaniline	ND		1800	470	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
4-Nitrophenol	ND		1800	630	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Acenaphthene	ND		900	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Acenaphthylene	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Acetophenone	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Anthracene	ND		900	220	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Atrazine	ND		900	310	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Benzaldehyde	ND		900	720	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Benzo[a]anthracene	ND		900	90	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Benzo[a]pyrene	**250**	**J**	900	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Benzo[b]fluoranthene	**350**	**J**	900	140	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Benzo[g,h,i]perylene	ND		900	96	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Benzo[k]fluoranthene	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Biphenyl	ND		900	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
bis (2-chloroisopropyl) ether	ND		900	180	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Bis(2-chloroethoxy)methane	ND		900	190	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Bis(2-chloroethyl)ether	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Bis(2-ethylhexyl) phthalate	ND		900	310	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Butyl benzyl phthalate	ND		900	150	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Caprolactam	ND		900	270	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Carbazole	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5

Client Sample ID: TP-30 4-6 FT
Lab Sample ID: 480-189504-4
Date Collected: 09/13/21 11:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		900	200	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Dibenz(a,h)anthracene	ND		900	160	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Dibenzofuran	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Diethyl phthalate	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Dimethyl phthalate	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Di-n-butyl phthalate	ND		900	150	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Di-n-octyl phthalate	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Fluoranthene	**360**	**J**	900	96	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Fluorene	ND		900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Hexachlorobenzene	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Hexachlorobutadiene	ND		900	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Hexachlorocyclopentadiene	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Hexachloroethane	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Indeno[1,2,3-cd]pyrene	**130**	**J**	900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Isophorone	ND		900	190	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Naphthalene	ND		900	120	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Nitrobenzene	ND		900	100	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
N-Nitrosodi-n-propylamine	ND		900	150	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
N-Nitrosodiphenylamine	ND		900	730	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Pentachlorophenol	ND		1800	900	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Phenanthrene	ND		900	130	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Phenol	ND		900	140	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5
Pyrene	**320**	**J**	900	110	ug/Kg	☼	09/15/21 06:51	09/16/21 20:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*54 - 120*	*09/15/21 06:51*	*09/16/21 20:56*	*5*
2-Fluorobiphenyl	*85*		*60 - 120*	*09/15/21 06:51*	*09/16/21 20:56*	*5*
2-Fluorophenol	*76*		*52 - 120*	*09/15/21 06:51*	*09/16/21 20:56*	*5*
Nitrobenzene-d5	*75*		*53 - 120*	*09/15/21 06:51*	*09/16/21 20:56*	*5*
Phenol-d5	*68*		*54 - 120*	*09/15/21 06:51*	*09/16/21 20:56*	*5*
p-Terphenyl-d14	*99*		*79 - 130*	*09/15/21 06:51*	*09/16/21 20:56*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		36	6.9	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
4,4'-DDE	ND		36	7.5	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
4,4'-DDT	**9.8**	**J**	36	8.4	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Aldrin	ND		36	8.8	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
alpha-BHC	ND		36	6.4	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
beta-BHC	ND	F2	36	6.4	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
cis-Chlordane	ND		36	18	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
delta-BHC	ND		36	6.6	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Dieldrin	ND	F1 F2	36	8.6	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Endosulfan I	ND		36	6.9	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Endosulfan II	ND		36	6.4	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Endosulfan sulfate	ND		36	6.7	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Endrin	ND		36	7.1	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Endrin aldehyde	ND	F1	36	9.1	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Endrin ketone	ND		36	8.8	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
gamma-BHC (Lindane)	ND		36	6.6	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20

Client Sample ID: TP-30 4-6 FT
Lab Sample ID: 480-189504-4

Date Collected: 09/13/21 11:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 91.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		36	7.7	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Heptachlor epoxide	ND		36	9.2	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Methoxychlor	ND		36	7.3	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
Toxaphene	ND		360	210	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20
trans-Chlordane	ND		36	11	ug/Kg	☼	09/14/21 14:17	09/15/21 10:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*09/14/21 14:17*	*09/15/21 10:30*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*09/14/21 14:17*	*09/15/21 10:30*	*20*
Tetrachloro-m-xylene	*165*	*S1+*	*30 - 124*	*09/14/21 14:17*	*09/15/21 10:30*	*20*
Tetrachloro-m-xylene	*139*	*S1+*	*30 - 124*	*09/14/21 14:17*	*09/15/21 10:30*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	09/14/21 14:22	09/15/21 02:19	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	09/14/21 14:22	09/15/21 02:19	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	09/14/21 14:22	09/15/21 02:19	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	09/14/21 14:22	09/15/21 02:19	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	09/14/21 14:22	09/15/21 02:19	1
PCB-1254	**0.36**		0.26	0.12	mg/Kg	☼	09/14/21 14:22	09/15/21 02:19	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/14/21 14:22	09/15/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*126*		*60 - 154*	*09/14/21 14:22*	*09/15/21 02:19*	*1*
Tetrachloro-m-xylene	*119*		*60 - 154*	*09/14/21 14:22*	*09/15/21 02:19*	*1*
DCB Decachlorobiphenyl	*171*		*65 - 174*	*09/14/21 14:22*	*09/15/21 02:19*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*09/14/21 14:22*	*09/15/21 02:19*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	09/14/21 14:13	09/16/21 22:15	1
2,4-D	ND		18	11	ug/Kg	☼	09/14/21 14:13	09/16/21 22:15	1
Silvex (2,4,5-TP)	ND		18	6.5	ug/Kg	☼	09/14/21 14:13	09/16/21 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*66*		*28 - 129*	*09/14/21 14:13*	*09/16/21 22:15*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*09/14/21 14:13*	*09/16/21 22:15*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.52	0.17	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluoropentanoic acid (PFPeA)	ND		0.21	0.040	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorohexanoic acid (PFHxA)	**0.037**	**J**	0.21	0.023	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.021	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorooctanoic acid (PFOA)	**0.10**	**J**	0.21	0.026	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorononanoic acid (PFNA)	**0.029**	**J**	0.21	0.019	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorodecanoic acid (PFDA)	**0.019**	**J**	0.21	0.012	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.021	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorododecanoic acid (PFDoA)	ND		0.21	0.022	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.015	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.024	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-30 4-6 FT
Date Collected: 09/13/21 11:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-4
Matrix: Solid
Percent Solids: 91.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.012**	**J B**	0.21	0.0096	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorohexanesulfonic acid (PFHxS)	**0.041**	**J**	0.21	0.014	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.21	0.015	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorooctanesulfonic acid (PFOS)	**0.87**	**B**	0.21	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.012	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.038	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**0.072**	**J**	2.1	0.047	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.1	0.032	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.1	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 17:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*78*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C4 PFHpA	*85*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C4 PFOA	*85*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C4 PFOS	*80*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C5 PFNA	*82*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C4 PFBA	*82*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C2 PFHxA	*83*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C2 PFDA	*79*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C2 PFUnA	*79*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C2 PFDoA	*80*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C8 FOSA	*73*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C5 PFPeA	*86*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
d3-NMeFOSAA	*77*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
d5-NEtFOSAA	*81*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
M2-6:2 FTS	*90*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
M2-8:2 FTS	*81*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*
13C3 PFBS	*85*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13800**		11.6	5.1	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Antimony	**0.83**	**J F1**	17.3	0.46	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Arsenic	**9.7**		2.3	0.46	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Barium	**137**	**F1**	0.58	0.13	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Beryllium	**1.1**		0.23	0.032	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Cadmium	**1.3**		0.23	0.035	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Calcium	**53800**		57.8	3.8	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Chromium	**112**	**F1 F2**	0.58	0.23	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Cobalt	**10.2**		0.58	0.058	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Copper	**59.7**	**F2**	1.2	0.24	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Iron	**41900**	**F2**	11.6	4.0	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-30 4-6 FT
Lab Sample ID: 480-189504-4
Date Collected: 09/13/21 11:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 91.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	218	F2	1.2	0.28	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Magnesium	8680	F1	23.1	1.1	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Manganese	2640	F2 B	0.23	0.037	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Nickel	48.4		5.8	0.27	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Potassium	1900	F1	34.7	23.1	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Selenium	4.0	J	4.6	0.46	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Silver	0.37	J	0.69	0.23	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Sodium	212	B	162	15.0	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Thallium	ND		6.9	0.35	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Vanadium	54.5	F1 F2	0.58	0.13	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1
Zinc	210		2.3	0.74	mg/Kg	☼	09/15/21 16:43	09/16/21 17:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.018	0.0041	mg/Kg	☼	09/16/21 14:16	09/16/21 16:13	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-34 0-2 FT
Date Collected: 09/13/21 13:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-5
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		7.6	0.55	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,1,2,2-Tetrachloroethane	ND		7.6	1.2	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	1.7	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,1,2-Trichloroethane	ND		7.6	0.99	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,1-Dichloroethane	ND		7.6	0.92	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,1-Dichloroethene	ND		7.6	0.93	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,2,4-Trichlorobenzene	ND		7.6	0.46	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,2-Dibromo-3-Chloropropane	ND		7.6	3.8	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,2-Dibromoethane	ND		7.6	0.97	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,2-Dichlorobenzene	ND		7.6	0.59	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,2-Dichloroethane	ND		7.6	0.38	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,2-Dichloropropane	ND		7.6	3.8	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,3-Dichlorobenzene	ND		7.6	0.39	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
1,4-Dichlorobenzene	ND		7.6	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
2-Butanone (MEK)	ND		38	2.8	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
2-Hexanone	ND		38	3.8	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
4-Methyl-2-pentanone (MIBK)	ND		38	2.5	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Acetone	**25**	**J**	38	6.4	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Benzene	ND		7.6	0.37	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Bromodichloromethane	ND		7.6	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Bromoform	ND		7.6	3.8	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Bromomethane	ND		7.6	0.68	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Carbon disulfide	ND		7.6	3.8	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Carbon tetrachloride	ND		7.6	0.73	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Chlorobenzene	ND		7.6	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Chloroethane	ND		7.6	1.7	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Chloroform	ND		7.6	0.47	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Chloromethane	ND		7.6	0.46	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
cis-1,2-Dichloroethene	ND		7.6	0.97	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
cis-1,3-Dichloropropene	ND		7.6	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Cyclohexane	ND		7.6	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Dibromochloromethane	ND		7.6	0.97	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Dichlorodifluoromethane	ND		7.6	0.63	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Ethylbenzene	ND		7.6	0.52	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Isopropylbenzene	ND		7.6	1.1	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Methyl acetate	ND		38	4.6	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Methyl tert-butyl ether	ND		7.6	0.74	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Methylcyclohexane	ND		7.6	1.2	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Methylene Chloride	**3.5**	**J B**	7.6	3.5	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Styrene	ND		7.6	0.38	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Tetrachloroethene	ND		7.6	1.0	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Toluene	ND		7.6	0.57	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
trans-1,2-Dichloroethene	ND		7.6	0.78	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
trans-1,3-Dichloropropene	ND		7.6	3.3	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Trichloroethene	ND		7.6	1.7	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Trichlorofluoromethane	ND		7.6	0.72	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Vinyl chloride	ND		7.6	0.92	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1
Xylenes, Total	ND		15	1.3	ug/Kg	☼	09/14/21 12:01	09/14/21 22:14	1

Client Sample ID: TP-34 0-2 FT
Lab Sample ID: 480-189504-5

Date Collected: 09/13/21 13:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 79.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*09/14/21 12:01*	*09/14/21 22:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*09/14/21 12:01*	*09/14/21 22:14*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*09/14/21 12:01*	*09/14/21 22:14*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*09/14/21 12:01*	*09/14/21 22:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	68	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2,4-Dinitrophenol	ND		2000	960	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2-Chlorophenol	ND		410	38	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2-Methylphenol	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4-Methylphenol	ND		410	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Acenaphthene	ND		210	31	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Acenaphthylene	ND		210	27	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Acetophenone	ND		210	28	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Anthracene	ND		210	52	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Atrazine	ND		210	73	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Benzaldehyde	ND		210	170	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Biphenyl	ND		210	31	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Caprolactam	ND		210	63	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Carbazole	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1

Client Sample ID: TP-34 0-2 FT
Date Collected: 09/13/21 13:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-5
Matrix: Solid
Percent Solids: 79.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		210	47	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Dibenzofuran	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Fluoranthene	**22**	**J**	210	22	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Fluorene	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Hexachloroethane	ND		210	27	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Isophorone	ND		210	44	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Naphthalene	ND		210	27	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Nitrobenzene	ND		210	23	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Phenanthrene	ND		210	31	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Phenol	ND		210	32	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1
Pyrene	ND		210	25	ug/Kg	☼	09/15/21 06:51	09/16/21 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*54 - 120*	*09/15/21 06:51*	*09/16/21 21:19*	*1*
2-Fluorobiphenyl	*94*		*60 - 120*	*09/15/21 06:51*	*09/16/21 21:19*	*1*
2-Fluorophenol	*84*		*52 - 120*	*09/15/21 06:51*	*09/16/21 21:19*	*1*
Nitrobenzene-d5	*81*		*53 - 120*	*09/15/21 06:51*	*09/16/21 21:19*	*1*
Phenol-d5	*87*		*54 - 120*	*09/15/21 06:51*	*09/16/21 21:19*	*1*
p-Terphenyl-d14	*102*		*79 - 130*	*09/15/21 06:51*	*09/16/21 21:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.40	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
4,4'-DDE	**0.93**	**J**	2.1	0.43	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
4,4'-DDT	ND		2.1	0.48	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Aldrin	ND		2.1	0.51	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
alpha-BHC	ND		2.1	0.37	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
beta-BHC	ND		2.1	0.37	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
cis-Chlordane	ND		2.1	1.0	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
delta-BHC	ND		2.1	0.38	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Dieldrin	ND		2.1	0.49	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Endosulfan I	ND		2.1	0.39	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Endosulfan II	ND		2.1	0.37	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Endosulfan sulfate	ND		2.1	0.38	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Endrin	ND		2.1	0.41	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Endrin aldehyde	ND		2.1	0.53	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Endrin ketone	**1.0**	**J**	2.1	0.51	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
gamma-BHC (Lindane)	ND		2.1	0.38	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1

Client Sample ID: TP-34 0-2 FT
Date Collected: 09/13/21 13:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-5
Matrix: Solid
Percent Solids: 79.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.1	0.45	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Heptachlor epoxide	ND		2.1	0.53	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Methoxychlor	**1.7**	**J**	2.1	0.42	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
Toxaphene	ND		21	12	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1
trans-Chlordane	ND		2.1	0.65	ug/Kg	☼	09/14/21 14:17	09/15/21 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*45 - 120*	*09/14/21 14:17*	*09/15/21 11:49*	*1*
DCB Decachlorobiphenyl	*268*	*S1+*	*45 - 120*	*09/14/21 14:17*	*09/15/21 11:49*	*1*
Tetrachloro-m-xylene	*83*		*30 - 124*	*09/14/21 14:17*	*09/15/21 11:49*	*1*
Tetrachloro-m-xylene	*77*		*30 - 124*	*09/14/21 14:17*	*09/15/21 11:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	09/14/21 14:22	09/15/21 01:03	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	09/14/21 14:22	09/15/21 01:03	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	09/14/21 14:22	09/15/21 01:03	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	09/14/21 14:22	09/15/21 01:03	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	09/14/21 14:22	09/15/21 01:03	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/14/21 14:22	09/15/21 01:03	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	09/14/21 14:22	09/15/21 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:03*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*09/14/21 14:22*	*09/15/21 01:03*	*1*
DCB Decachlorobiphenyl	*163*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:03*	*1*
DCB Decachlorobiphenyl	*126*		*65 - 174*	*09/14/21 14:22*	*09/15/21 01:03*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.6	ug/Kg	☼	09/14/21 14:13	09/16/21 22:45	1
2,4-D	ND		21	13	ug/Kg	☼	09/14/21 14:13	09/16/21 22:45	1
Silvex (2,4,5-TP)	ND		21	7.4	ug/Kg	☼	09/14/21 14:13	09/16/21 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*58*		*28 - 129*	*09/14/21 14:13*	*09/16/21 22:45*	*1*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*09/14/21 14:13*	*09/16/21 22:45*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.31**	**J**	0.60	0.19	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluoropentanoic acid (PFPeA)	**0.068**	**J**	0.24	0.047	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorohexanoic acid (PFHxA)	**0.090**	**J**	0.24	0.027	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluoroheptanoic acid (PFHpA)	**0.078**	**J**	0.24	0.024	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorooctanoic acid (PFOA)	**0.38**		0.24	0.030	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorononanoic acid (PFNA)	**0.097**	**J**	0.24	0.022	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorodecanoic acid (PFDA)	**0.032**	**J**	0.24	0.015	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluoroundecanoic acid (PFUnA)	**0.034**	**J**	0.24	0.024	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorododecanoic acid (PFDoA)	ND		0.24	0.025	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorotridecanoic acid (PFTriA)	ND		0.24	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-34 0-2 FT
Date Collected: 09/13/21 13:00
Date Received: 09/14/21 08:00

Lab Sample ID: 480-189504-5
Matrix: Solid
Percent Solids: 79.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.028	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorobutanesulfonic acid (PFBS)	**0.034**	**J B**	0.24	0.011	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorohexanesulfonic acid (PFHxS)	**0.036**	**J**	0.24	0.017	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.24	0.018	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorooctanesulfonic acid (PFOS)	**0.38**	**B**	0.24	0.019	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.015	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.021	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.045	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.056	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.4	0.037	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.4	0.019	ug/Kg	☼	09/16/21 16:16	09/17/21 17:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*80*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C4 PFHpA	*79*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C4 PFOA	*82*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C4 PFOS	*78*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C5 PFNA	*72*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C4 PFBA	*74*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C2 PFHxA	*76*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C2 PFDA	*75*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C2 PFUnA	*66*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C2 PFDoA	*71*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C8 FOSA	*74*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C5 PFPeA	*78*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C2 PFTeDA	*76*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
d5-NEtFOSAA	*71*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
M2-6:2 FTS	*95*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
M2-8:2 FTS	*90*		*25 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*
13C3 PFBS	*83*		*50 - 150*	*09/16/21 16:16*	*09/17/21 17:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21000**		12.8	5.6	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Antimony	ND		19.2	0.51	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Arsenic	**5.4**		2.6	0.51	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Barium	**45.9**		0.64	0.14	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Beryllium	**0.66**		0.26	0.036	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Cadmium	**0.40**		0.26	0.038	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Calcium	**622**		64.0	4.2	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Chromium	**27.9**		0.64	0.26	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Cobalt	**9.2**		0.64	0.064	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Copper	**20.7**		1.3	0.27	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: TP-34 0-2 FT
Lab Sample ID: 480-189504-5
Date Collected: 09/13/21 13:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 79.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	27500		12.8	4.5	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Lead	25.5		1.3	0.31	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Magnesium	4150		25.6	1.2	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Manganese	195	B	0.26	0.041	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Nickel	28.0		6.4	0.29	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Potassium	2260		38.4	25.6	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Selenium	2.9	J	5.1	0.51	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Silver	ND		0.77	0.26	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Sodium	60.5	J B	179	16.6	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Thallium	ND		7.7	0.38	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Vanadium	37.3		0.64	0.14	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1
Zinc	78.9		2.6	0.82	mg/Kg	☼	09/15/21 16:43	09/16/21 17:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.027	0.0062	mg/Kg	☼	09/16/21 14:16	09/16/21 16:14	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-189504-1	TP-6 3-4 FT	105	99	106	96
480-189504-2	TP-22 0-2 FT	111	100	110	96
480-189504-3	TP-23 1-3 FT	109	102	109	96
480-189504-4	TP-30 4-6 FT	106	102	106	96
480-189504-5	TP-34 0-2 FT	107	101	108	98
LCS 480-596257/1-A	Lab Control Sample	105	103	107	97
MB 480-596257/3-A	Method Blank	103	101	103	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-189504-1	TP-6 3-4 FT	95	100	85	87	90	111
480-189504-1 MS	TP-6 3-4 FT	104	92	73	80	81	98
480-189504-1 MSD	TP-6 3-4 FT	99	92	76	81	85	102
480-189504-2	TP-22 0-2 FT	91	94	78	81	87	105
480-189504-3	TP-23 1-3 FT	98	96	75	85	85	111
480-189504-4	TP-30 4-6 FT	77	85	76	75	68	99
480-189504-5	TP-34 0-2 FT	95	94	84	81	87	102
LCS 480-596346/2-A	Lab Control Sample	95	92	68	77	76	98
MB 480-596346/1-A	Method Blank	82	87	68	69	72	102

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-189504-1	TP-6 3-4 FT	80	109	88	109
480-189504-2	TP-22 0-2 FT	81	127 S1+	86	108
480-189504-3	TP-23 1-3 FT	75	85	81	76
480-189504-4	TP-30 4-6 FT	0 S1-	0 S1-	165 S1+	139 S1+
480-189504-4 MS	TP-30 4-6 FT	1606 S1+	1887 S1+	176 S1+	138 S1+
480-189504-4 MSD	TP-30 4-6 FT	1304 S1+	1008 S1+	171 S1+	126 S1+
480-189504-5	TP-34 0-2 FT	75	268 S1+	83	77

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
LCS 480-596286/2-A	Lab Control Sample	89	101	89	81
MB 480-596286/1-A	Method Blank	102	110	95	92

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-189504-1	TP-6 3-4 FT	108	120	125	164
480-189504-2	TP-22 0-2 FT	123	130	130	170
480-189504-3	TP-23 1-3 FT	109	118	126	163
480-189504-4	TP-30 4-6 FT	119	126	133	171
480-189504-5	TP-34 0-2 FT	112	125	126	163
480-189504-5 MS	TP-34 0-2 FT	141	152	159	208 S1+
480-189504-5 MSD	TP-34 0-2 FT	134	141	147	187 S1+
LCS 480-596287/2-A	Lab Control Sample	136	147	152	194 S1+
MB 480-596287/1-A	Method Blank	124	133	139	177 S1+

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-189504-1	TP-6 3-4 FT	58	66
480-189504-2	TP-22 0-2 FT	62	70
480-189504-2 MS	TP-22 0-2 FT	59	83
480-189504-2 MSD	TP-22 0-2 FT	61	89
480-189504-3	TP-23 1-3 FT	77	86
480-189504-4	TP-30 4-6 FT	66	73
480-189504-5	TP-34 0-2 FT	58	68
LCS 480-596285/2-A	Lab Control Sample	64	90
MB 480-596285/1-A	Method Blank	39	45

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFHxS	C4PFHA	PFOA	PFOS	PFNA	PFBA	PFHxA	PFDA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(25-150)	(50-150)	(50-150)
480-189504-1	TP-6 3-4 FT	66	76	76	64	72	71	74	79
480-189504-2	TP-22 0-2 FT	66	76	77	62	71	71	72	73
480-189504-3	TP-23 1-3 FT	84	81	78	80	75	77	80	76
480-189504-4	TP-30 4-6 FT	78	85	85	80	82	82	83	79
480-189504-5	TP-34 0-2 FT	80	79	82	78	72	74	76	75
LCS 200-171429/2-A	Lab Control Sample	89	89	89	86	85	87	87	86
MB 200-171429/1-A	Method Blank	93	93	93	85	87	88	86	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA	PFDoA	PFOSA	PFPeA	PFTDA	d3NMFOS	d5NEFOS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(25-150)
480-189504-1	TP-6 3-4 FT	68	71	66	76	69	70	67	71
480-189504-2	TP-22 0-2 FT	67	69	65	74	69	69	67	70
480-189504-3	TP-23 1-3 FT	73	71	79	83	59	66	71	89
480-189504-4	TP-30 4-6 FT	79	80	73	86	80	77	81	90
480-189504-5	TP-34 0-2 FT	66	71	74	78	76	72	71	95
LCS 200-171429/2-A	Lab Control Sample	74	67	73	92	68	89	76	99
MB 200-171429/1-A	Method Blank	66	58	70	93	60	85	71	111

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		M282FTS	C3PFBS
Lab Sample ID	Client Sample ID	(25-150)	(50-150)
480-189504-1	TP-6 3-4 FT	69	68
480-189504-2	TP-22 0-2 FT	65	69
480-189504-3	TP-23 1-3 FT	81	87
480-189504-4	TP-30 4-6 FT	81	85
480-189504-5	TP-34 0-2 FT	90	83
LCS 200-171429/2-A	Lab Control Sample	90	100
MB 200-171429/1-A	Method Blank	93	101

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

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

Lab Sample ID: MB 480-596257/3-A
Matrix: Solid
Analysis Batch: 596324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
2-Hexanone	ND		25	2.5	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Acetone	ND		25	4.2	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Benzene	ND		5.0	0.25	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Bromoform	ND		5.0	2.5	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Chloroform	ND		5.0	0.31	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Methyl acetate	ND		25	3.0	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Methylene Chloride	3.10	J	5.0	2.3	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Styrene	ND		5.0	0.25	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Toluene	ND		5.0	0.38	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/14/21 12:01	09/14/21 20:17	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/14/21 12:01	09/14/21 20:17	1

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

Lab Sample ID: MB 480-596257/3-A
Matrix: Solid
Analysis Batch: 596324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596257

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	09/14/21 12:01	09/14/21 20:17	1
4-Bromofluorobenzene (Surr)	101		72 - 126	09/14/21 12:01	09/14/21 20:17	1
Dibromofluoromethane (Surr)	103		60 - 140	09/14/21 12:01	09/14/21 20:17	1
Toluene-d8 (Surr)	96		71 - 125	09/14/21 12:01	09/14/21 20:17	1

Lab Sample ID: LCS 480-596257/1-A
Matrix: Solid
Analysis Batch: 596324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.1		ug/Kg		104	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.0		ug/Kg		102	60 - 140
1,1,2-Trichloroethane	50.0	46.3		ug/Kg		93	78 - 122
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	73 - 126
1,1-Dichloroethene	50.0	49.6		ug/Kg		99	59 - 125
1,2,4-Trichlorobenzene	50.0	48.3		ug/Kg		97	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/Kg		97	63 - 124
1,2-Dibromoethane	50.0	48.8		ug/Kg		98	78 - 120
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	53.1		ug/Kg		106	77 - 122
1,2-Dichloropropane	50.0	47.3		ug/Kg		95	75 - 124
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	74 - 120
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	73 - 120
2-Butanone (MEK)	250	240		ug/Kg		96	70 - 134
2-Hexanone	250	233		ug/Kg		93	59 - 130
4-Methyl-2-pentanone (MIBK)	250	221		ug/Kg		89	65 - 133
Acetone	250	267		ug/Kg		107	61 - 137
Benzene	50.0	48.8		ug/Kg		98	79 - 127
Bromodichloromethane	50.0	52.6		ug/Kg		105	80 - 122
Bromoform	50.0	51.9		ug/Kg		104	68 - 126
Bromomethane	50.0	50.1		ug/Kg		100	37 - 149
Carbon disulfide	50.0	44.4		ug/Kg		89	64 - 131
Carbon tetrachloride	50.0	54.7		ug/Kg		109	75 - 135
Chlorobenzene	50.0	48.4		ug/Kg		97	76 - 124
Chloroethane	50.0	45.9		ug/Kg		92	69 - 135
Chloroform	50.0	49.4		ug/Kg		99	80 - 120
Chloromethane	50.0	45.0		ug/Kg		90	63 - 127
cis-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	81 - 120
cis-1,3-Dichloropropene	50.0	49.7		ug/Kg		99	80 - 120
Cyclohexane	50.0	44.0		ug/Kg		88	65 - 120
Dibromochloromethane	50.0	50.7		ug/Kg		101	76 - 125
Dichlorodifluoromethane	50.0	57.1		ug/Kg		114	57 - 142
Ethylbenzene	50.0	48.1		ug/Kg		96	80 - 120
Isopropylbenzene	50.0	48.8		ug/Kg		98	72 - 120
Methyl acetate	100	90.3		ug/Kg		90	55 - 136
Methyl tert-butyl ether	50.0	51.1		ug/Kg		102	63 - 125
Methylcyclohexane	50.0	49.3		ug/Kg		99	60 - 140

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

Lab Sample ID: LCS 480-596257/1-A
Matrix: Solid
Analysis Batch: 596324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	49.4		ug/Kg		99	61 - 127
Styrene	50.0	49.1		ug/Kg		98	80 - 120
Tetrachloroethene	50.0	50.1		ug/Kg		100	74 - 122
Toluene	50.0	47.1		ug/Kg		94	74 - 128
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	78 - 126
trans-1,3-Dichloropropene	50.0	48.3		ug/Kg		97	73 - 123
Trichloroethene	50.0	50.7		ug/Kg		101	77 - 129
Trichlorofluoromethane	50.0	54.6		ug/Kg		109	65 - 146
Vinyl chloride	50.0	49.5		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*
Dibromofluoromethane (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*97*		*71 - 125*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-596346/1-A
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		97	54	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2,4-Dinitrophenol	ND		1600	760	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2,6-Dinitrotoluene	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2-Chloronaphthalene	ND		170	27	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2-Chlorophenol	ND		320	30	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2-Methylnaphthalene	ND		170	33	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2-Methylphenol	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2-Nitroaniline	ND		320	24	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
2-Nitrophenol	ND		170	47	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
3,3'-Dichlorobenzidine	ND		320	190	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
3-Nitroaniline	ND		320	46	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4-Bromophenyl phenyl ether	ND		170	23	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4-Chloroaniline	ND		170	41	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4-Chlorophenyl phenyl ether	ND		170	20	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4-Methylphenol	ND		320	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4-Nitroaniline	ND		320	87	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
4-Nitrophenol	ND		320	120	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Acenaphthene	ND		170	24	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Acenaphthylene	ND		170	21	ug/Kg		09/15/21 06:51	09/16/21 17:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-596346/1-A
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		170	22	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Anthracene	ND		170	41	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Atrazine	ND		170	57	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Benzaldehyde	ND		170	130	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Benzo[a]pyrene	ND		170	24	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Benzo[k]fluoranthene	ND		170	21	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Biphenyl	ND		170	24	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Bis(2-chloroethyl)ether	ND		170	21	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Bis(2-ethylhexyl) phthalate	ND		170	56	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Butyl benzyl phthalate	ND		170	27	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Caprolactam	ND		170	50	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Carbazole	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Chrysene	ND		170	37	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Dibenzofuran	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Diethyl phthalate	ND		170	21	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Dimethyl phthalate	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Di-n-butyl phthalate	ND		170	28	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Di-n-octyl phthalate	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Fluoranthene	ND		170	18	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Fluorene	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Hexachlorobenzene	ND		170	22	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Hexachlorobutadiene	ND		170	24	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Hexachlorocyclopentadiene	ND		170	22	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Hexachloroethane	ND		170	21	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Indeno[1,2,3-cd]pyrene	ND		170	20	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Isophorone	ND		170	35	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Naphthalene	ND		170	21	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Nitrobenzene	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
N-Nitrosodiphenylamine	ND		170	130	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Pentachlorophenol	ND		320	170	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Phenanthrene	ND		170	24	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Phenol	ND		170	25	ug/Kg		09/15/21 06:51	09/16/21 17:47	1
Pyrene	ND		170	19	ug/Kg		09/15/21 06:51	09/16/21 17:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*54 - 120*	*09/15/21 06:51*	*09/16/21 17:47*	*1*
2-Fluorobiphenyl	*87*		*60 - 120*	*09/15/21 06:51*	*09/16/21 17:47*	*1*
2-Fluorophenol	*68*		*52 - 120*	*09/15/21 06:51*	*09/16/21 17:47*	*1*
Nitrobenzene-d5	*69*		*53 - 120*	*09/15/21 06:51*	*09/16/21 17:47*	*1*
Phenol-d5	*72*		*54 - 120*	*09/15/21 06:51*	*09/16/21 17:47*	*1*
p-Terphenyl-d14	*102*		*79 - 130*	*09/15/21 06:51*	*09/16/21 17:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-596346/2-A
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1650	854		ug/Kg		52	23 - 120
2,4,5-Trichlorophenol	1650	1540		ug/Kg		94	59 - 126
2,4,6-Trichlorophenol	1650	1540		ug/Kg		93	59 - 123
2,4-Dichlorophenol	1650	1410		ug/Kg		86	61 - 120
2,4-Dimethylphenol	1650	1400		ug/Kg		85	59 - 120
2,4-Dinitrophenol	3290	3250		ug/Kg		99	41 - 146
2,4-Dinitrotoluene	1650	1580		ug/Kg		96	63 - 120
2,6-Dinitrotoluene	1650	1610		ug/Kg		97	66 - 120
2-Chloronaphthalene	1650	1510		ug/Kg		92	57 - 120
2-Chlorophenol	1650	1270		ug/Kg		77	53 - 120
2-Methylnaphthalene	1650	1470		ug/Kg		89	59 - 120
2-Methylphenol	1650	1290		ug/Kg		79	54 - 120
2-Nitroaniline	1650	1430		ug/Kg		87	61 - 120
2-Nitrophenol	1650	1420		ug/Kg		86	56 - 120
3,3'-Dichlorobenzidine	3290	3000		ug/Kg		91	54 - 120
3-Nitroaniline	1650	1450		ug/Kg		88	48 - 120
4,6-Dinitro-2-methylphenol	3290	3270		ug/Kg		99	49 - 122
4-Bromophenyl phenyl ether	1650	1690		ug/Kg		103	58 - 120
4-Chloro-3-methylphenol	1650	1520		ug/Kg		92	61 - 120
4-Chloroaniline	1650	1410		ug/Kg		86	38 - 120
4-Chlorophenyl phenyl ether	1650	1580		ug/Kg		96	63 - 124
4-Methylphenol	1650	1350		ug/Kg		82	55 - 120
4-Nitroaniline	1650	1550		ug/Kg		94	56 - 120
4-Nitrophenol	3290	3100		ug/Kg		94	43 - 147
Acenaphthene	1650	1520		ug/Kg		92	62 - 120
Acenaphthylene	1650	1630		ug/Kg		99	58 - 121
Acetophenone	1650	1320		ug/Kg		80	54 - 120
Anthracene	1650	1560		ug/Kg		95	62 - 120
Atrazine	3290	3080		ug/Kg		93	60 - 127
Benzaldehyde	3290	1440		ug/Kg		44	10 - 150
Benzo[a]anthracene	1650	1540		ug/Kg		94	65 - 120
Benzo[a]pyrene	1650	1600		ug/Kg		97	64 - 120
Benzo[b]fluoranthene	1650	1690		ug/Kg		103	64 - 120
Benzo[g,h,i]perylene	1650	1550		ug/Kg		94	45 - 145
Benzo[k]fluoranthene	1650	1590		ug/Kg		96	65 - 120
Biphenyl	1650	1490		ug/Kg		90	59 - 120
bis (2-chloroisopropyl) ether	1650	969		ug/Kg		59	44 - 120
Bis(2-chloroethoxy)methane	1650	1340		ug/Kg		81	55 - 120
Bis(2-chloroethyl)ether	1650	1210		ug/Kg		74	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1550		ug/Kg		94	61 - 133
Butyl benzyl phthalate	1650	1550		ug/Kg		94	61 - 129
Caprolactam	3290	3180		ug/Kg		97	47 - 120
Carbazole	1650	1630		ug/Kg		99	65 - 120
Chrysene	1650	1550		ug/Kg		94	64 - 120
Dibenz(a,h)anthracene	1650	1600		ug/Kg		97	54 - 132
Dibenzofuran	1650	1580		ug/Kg		96	63 - 120
Diethyl phthalate	1650	1620		ug/Kg		98	66 - 120
Dimethyl phthalate	1650	1560		ug/Kg		95	65 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-596346/2-A
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	1650	1630		ug/Kg		99	58 - 130
Di-n-octyl phthalate	1650	1510		ug/Kg		91	57 - 133
Fluoranthene	1650	1560		ug/Kg		95	62 - 120
Fluorene	1650	1550		ug/Kg		94	63 - 120
Hexachlorobenzene	1650	1660		ug/Kg		101	60 - 120
Hexachlorobutadiene	1650	1480		ug/Kg		90	45 - 120
Hexachlorocyclopentadiene	1650	1310		ug/Kg		80	47 - 120
Hexachloroethane	1650	1150		ug/Kg		70	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1550		ug/Kg		94	56 - 134
Isophorone	1650	1380		ug/Kg		84	56 - 120
Naphthalene	1650	1340		ug/Kg		81	55 - 120
Nitrobenzene	1650	1270		ug/Kg		77	54 - 120
N-Nitrosodi-n-propylamine	1650	1320		ug/Kg		80	52 - 120
Pentachlorophenol	3290	2880		ug/Kg		87	51 - 120
Phenanthrene	1650	1550		ug/Kg		94	60 - 120
Phenol	1650	1160		ug/Kg		70	53 - 120
Pyrene	1650	1520		ug/Kg		92	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*95*		*54 - 120*
2-Fluorobiphenyl	*92*		*60 - 120*
2-Fluorophenol	*68*		*52 - 120*
Nitrobenzene-d5	*77*		*53 - 120*
Phenol-d5	*76*		*54 - 120*
p-Terphenyl-d14	*98*		*79 - 130*

Lab Sample ID: 480-189504-1 MS
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: TP-6 3-4 FT
Prep Type: Total/NA
Prep Batch: 596346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		1830	881		ug/Kg	☼	48	13 - 120
2,4,5-Trichlorophenol	ND		1830	1590		ug/Kg	☼	87	46 - 120
2,4,6-Trichlorophenol	ND		1830	1610		ug/Kg	☼	88	41 - 123
2,4-Dichlorophenol	ND		1830	1590		ug/Kg	☼	87	45 - 120
2,4-Dimethylphenol	ND		1830	1570		ug/Kg	☼	86	52 - 120
2,4-Dinitrophenol	ND		3660	3320		ug/Kg	☼	91	41 - 146
2,4-Dinitrotoluene	ND		1830	1650		ug/Kg	☼	90	63 - 125
2,6-Dinitrotoluene	ND		1830	1700		ug/Kg	☼	93	66 - 120
2-Chloronaphthalene	ND		1830	1580		ug/Kg	☼	86	57 - 120
2-Chlorophenol	ND		1830	1430		ug/Kg	☼	78	43 - 120
2-Methylnaphthalene	ND		1830	1530		ug/Kg	☼	84	55 - 120
2-Methylphenol	ND		1830	1440		ug/Kg	☼	79	48 - 120
2-Nitroaniline	ND		1830	1510		ug/Kg	☼	83	61 - 120
2-Nitrophenol	ND		1830	1520		ug/Kg	☼	83	37 - 120
3,3'-Dichlorobenzidine	ND		3660	3130		ug/Kg	☼	86	37 - 126
3-Nitroaniline	ND		1830	1430		ug/Kg	☼	78	48 - 120
4,6-Dinitro-2-methylphenol	ND		3660	3340		ug/Kg	☼	91	23 - 149

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189504-1 MS
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: TP-6 3-4 FT
Prep Type: Total/NA
Prep Batch: 596346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Bromophenyl phenyl ether	ND		1830	1760		ug/Kg	☼	96	58 - 120
4-Chloro-3-methylphenol	ND		1830	1630		ug/Kg	☼	89	49 - 125
4-Chloroaniline	ND		1830	1380		ug/Kg	☼	76	38 - 120
4-Chlorophenyl phenyl ether	ND		1830	1680		ug/Kg	☼	92	63 - 124
4-Methylphenol	ND		1830	1520		ug/Kg	☼	83	50 - 120
4-Nitroaniline	ND		1830	1380		ug/Kg	☼	75	47 - 120
4-Nitrophenol	ND		3660	3200		ug/Kg	☼	88	31 - 147
Acenaphthene	ND		1830	1570		ug/Kg	☼	86	60 - 120
Acenaphthylene	ND		1830	1660		ug/Kg	☼	91	58 - 121
Acetophenone	ND		1830	1450		ug/Kg	☼	79	47 - 120
Anthracene	ND		1830	1670		ug/Kg	☼	91	62 - 120
Atrazine	ND		3660	3210		ug/Kg	☼	88	60 - 150
Benzaldehyde	ND		3660	2770		ug/Kg	☼	76	10 - 150
Benzo[a]anthracene	ND		1830	1640		ug/Kg	☼	90	65 - 120
Benzo[a]pyrene	ND		1830	1710		ug/Kg	☼	94	64 - 120
Benzo[b]fluoranthene	ND		1830	1810		ug/Kg	☼	99	10 - 150
Benzo[g,h,i]perylene	ND		1830	1750		ug/Kg	☼	96	45 - 145
Benzo[k]fluoranthene	ND		1830	1770		ug/Kg	☼	97	23 - 150
Biphenyl	ND		1830	1570		ug/Kg	☼	86	58 - 120
bis (2-chloroisopropyl) ether	ND		1830	1090		ug/Kg	☼	60	31 - 120
Bis(2-chloroethoxy)methane	ND		1830	1410		ug/Kg	☼	77	52 - 120
Bis(2-chloroethyl)ether	ND		1830	1310		ug/Kg	☼	72	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1830	1650		ug/Kg	☼	90	61 - 133
Butyl benzyl phthalate	ND		1830	1670		ug/Kg	☼	91	61 - 120
Caprolactam	ND		3660	3260		ug/Kg	☼	89	37 - 133
Carbazole	ND		1830	1640		ug/Kg	☼	90	59 - 120
Chrysene	ND		1830	1670		ug/Kg	☼	91	64 - 120
Dibenz(a,h)anthracene	ND		1830	1770		ug/Kg	☼	97	54 - 132
Dibenzofuran	ND		1830	1630		ug/Kg	☼	89	62 - 120
Diethyl phthalate	ND		1830	1660		ug/Kg	☼	91	66 - 120
Dimethyl phthalate	ND		1830	1630		ug/Kg	☼	89	65 - 124
Di-n-butyl phthalate	ND		1830	1710		ug/Kg	☼	93	58 - 130
Di-n-octyl phthalate	ND		1830	1590		ug/Kg	☼	87	57 - 133
Fluoranthene	ND		1830	1610		ug/Kg	☼	88	62 - 120
Fluorene	ND		1830	1630		ug/Kg	☼	89	63 - 120
Hexachlorobenzene	ND		1830	1770		ug/Kg	☼	97	60 - 120
Hexachlorobutadiene	ND		1830	1460		ug/Kg	☼	80	45 - 120
Hexachlorocyclopentadiene	ND		1830	1390		ug/Kg	☼	76	31 - 120
Hexachloroethane	ND		1830	1220		ug/Kg	☼	67	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1830	1700		ug/Kg	☼	93	56 - 134
Isophorone	ND		1830	1520		ug/Kg	☼	83	56 - 120
Naphthalene	ND		1830	1440		ug/Kg	☼	79	46 - 120
Nitrobenzene	ND		1830	1320		ug/Kg	☼	72	49 - 120
N-Nitrosodi-n-propylamine	ND		1830	1390		ug/Kg	☼	76	46 - 120
Pentachlorophenol	ND		3660	2940		ug/Kg	☼	80	25 - 136
Phenanthrene	ND		1830	1630		ug/Kg	☼	89	60 - 122
Phenol	ND		1830	1330		ug/Kg	☼	73	50 - 120
Pyrene	ND		1830	1670		ug/Kg	☼	91	61 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189504-1 MS
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: TP-6 3-4 FT
Prep Type: Total/NA
Prep Batch: 596346

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol	*104*		*54 - 120*
2-Fluorobiphenyl	*92*		*60 - 120*
2-Fluorophenol	*73*		*52 - 120*
Nitrobenzene-d5	*80*		*53 - 120*
Phenol-d5	*81*		*54 - 120*
p-Terphenyl-d14	*98*		*79 - 130*

Lab Sample ID: 480-189504-1 MSD
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: TP-6 3-4 FT
Prep Type: Total/NA
Prep Batch: 596346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		1830	855		ug/Kg	☼	47	13 - 120	3	50
2,4,5-Trichlorophenol	ND		1830	1720		ug/Kg	☼	94	46 - 120	8	18
2,4,6-Trichlorophenol	ND		1830	1670		ug/Kg	☼	92	41 - 123	4	19
2,4-Dichlorophenol	ND		1830	1760		ug/Kg	☼	96	45 - 120	10	19
2,4-Dimethylphenol	ND		1830	1650		ug/Kg	☼	90	52 - 120	5	42
2,4-Dinitrophenol	ND		3650	3830		ug/Kg	☼	105	41 - 146	14	22
2,4-Dinitrotoluene	ND		1830	1750		ug/Kg	☼	96	63 - 125	6	20
2,6-Dinitrotoluene	ND		1830	1700		ug/Kg	☼	93	66 - 120	0	15
2-Chloronaphthalene	ND		1830	1620		ug/Kg	☼	89	57 - 120	3	21
2-Chlorophenol	ND		1830	1480		ug/Kg	☼	81	43 - 120	3	25
2-Methylnaphthalene	ND		1830	1660		ug/Kg	☼	91	55 - 120	8	21
2-Methylphenol	ND		1830	1610		ug/Kg	☼	88	48 - 120	11	27
2-Nitroaniline	ND		1830	1570		ug/Kg	☼	86	61 - 120	4	15
2-Nitrophenol	ND		1830	1600		ug/Kg	☼	88	37 - 120	5	18
3,3'-Dichlorobenzidine	ND		3650	3670		ug/Kg	☼	100	37 - 126	16	25
3-Nitroaniline	ND		1830	1600		ug/Kg	☼	88	48 - 120	11	19
4,6-Dinitro-2-methylphenol	ND		3650	3680		ug/Kg	☼	101	23 - 149	10	15
4-Bromophenyl phenyl ether	ND		1830	1810		ug/Kg	☼	99	58 - 120	3	15
4-Chloro-3-methylphenol	ND		1830	1740		ug/Kg	☼	95	49 - 125	7	27
4-Chloroaniline	ND		1830	1540		ug/Kg	☼	84	38 - 120	11	22
4-Chlorophenyl phenyl ether	ND		1830	1790		ug/Kg	☼	98	63 - 124	7	16
4-Methylphenol	ND		1830	1600		ug/Kg	☼	88	50 - 120	5	24
4-Nitroaniline	ND		1830	1590		ug/Kg	☼	87	47 - 120	14	24
4-Nitrophenol	ND		3650	3490		ug/Kg	☼	96	31 - 147	9	25
Acenaphthene	ND		1830	1600		ug/Kg	☼	88	60 - 120	2	35
Acenaphthylene	ND		1830	1770		ug/Kg	☼	97	58 - 121	6	18
Acetophenone	ND		1830	1510		ug/Kg	☼	83	47 - 120	4	20
Anthracene	ND		1830	1760		ug/Kg	☼	96	62 - 120	5	15
Atrazine	ND		3650	3520		ug/Kg	☼	96	60 - 150	9	20
Benzaldehyde	ND		3650	2720		ug/Kg	☼	75	10 - 150	2	20
Benzo[a]anthracene	ND		1830	1810		ug/Kg	☼	99	65 - 120	10	15
Benzo[a]pyrene	ND		1830	1800		ug/Kg	☼	98	64 - 120	5	15
Benzo[b]fluoranthene	ND		1830	1930		ug/Kg	☼	105	10 - 150	6	15
Benzo[g,h,i]perylene	ND		1830	1800		ug/Kg	☼	98	45 - 145	3	15
Benzo[k]fluoranthene	ND		1830	1820		ug/Kg	☼	100	23 - 150	3	22
Biphenyl	ND		1830	1640		ug/Kg	☼	90	58 - 120	4	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189504-1 MSD
Matrix: Solid
Analysis Batch: 596678

Client Sample ID: TP-6 3-4 FT
Prep Type: Total/NA
Prep Batch: 596346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
bis (2-chloroisopropyl) ether	ND		1830	1160		ug/Kg	☼	63	31 - 120	6	24
Bis(2-chloroethoxy)methane	ND		1830	1480		ug/Kg	☼	81	52 - 120	5	17
Bis(2-chloroethyl)ether	ND		1830	1410		ug/Kg	☼	77	45 - 120	7	21
Bis(2-ethylhexyl) phthalate	ND		1830	1800		ug/Kg	☼	98	61 - 133	9	15
Butyl benzyl phthalate	ND		1830	1770		ug/Kg	☼	97	61 - 120	6	16
Caprolactam	ND		3650	3580		ug/Kg	☼	98	37 - 133	9	20
Carbazole	ND		1830	1790		ug/Kg	☼	98	59 - 120	9	20
Chrysene	ND		1830	1750		ug/Kg	☼	96	64 - 120	5	15
Dibenz(a,h)anthracene	ND		1830	1870		ug/Kg	☼	102	54 - 132	5	15
Dibenzofuran	ND		1830	1700		ug/Kg	☼	93	62 - 120	4	15
Diethyl phthalate	ND		1830	1780		ug/Kg	☼	97	66 - 120	7	15
Dimethyl phthalate	ND		1830	1760		ug/Kg	☼	96	65 - 124	8	15
Di-n-butyl phthalate	ND		1830	1810		ug/Kg	☼	99	58 - 130	6	15
Di-n-octyl phthalate	ND		1830	1740		ug/Kg	☼	95	57 - 133	9	16
Fluoranthene	ND		1830	1720		ug/Kg	☼	94	62 - 120	7	15
Fluorene	ND		1830	1710		ug/Kg	☼	93	63 - 120	5	15
Hexachlorobenzene	ND		1830	1850		ug/Kg	☼	101	60 - 120	5	15
Hexachlorobutadiene	ND		1830	1540		ug/Kg	☼	84	45 - 120	5	44
Hexachlorocyclopentadiene	ND		1830	1430		ug/Kg	☼	78	31 - 120	3	49
Hexachloroethane	ND		1830	1290		ug/Kg	☼	70	21 - 120	5	46
Indeno[1,2,3-cd]pyrene	ND		1830	1820		ug/Kg	☼	100	56 - 134	7	15
Isophorone	ND		1830	1610		ug/Kg	☼	88	56 - 120	6	17
Naphthalene	ND		1830	1500		ug/Kg	☼	82	46 - 120	4	29
Nitrobenzene	ND		1830	1420		ug/Kg	☼	78	49 - 120	7	24
N-Nitrosodi-n-propylamine	ND		1830	1520		ug/Kg	☼	83	46 - 120	9	31
Pentachlorophenol	ND		3650	3230		ug/Kg	☼	88	25 - 136	9	35
Phenanthrene	ND		1830	1700		ug/Kg	☼	93	60 - 122	4	15
Phenol	ND		1830	1420		ug/Kg	☼	78	50 - 120	7	35
Pyrene	ND		1830	1770		ug/Kg	☼	97	61 - 133	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*54 - 120*
2-Fluorobiphenyl	*92*		*60 - 120*
2-Fluorophenol	*76*		*52 - 120*
Nitrobenzene-d5	*81*		*53 - 120*
Phenol-d5	*85*		*54 - 120*
p-Terphenyl-d14	*102*		*79 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-596286/1-A
Matrix: Solid
Analysis Batch: 596342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Aldrin	ND		1.7	0.41	ug/Kg		09/14/21 14:17	09/15/21 09:12	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-596286/1-A
Matrix: Solid
Analysis Batch: 596342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		1.7	0.30	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
beta-BHC	ND		1.7	0.30	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
cis-Chlordane	ND		1.7	0.82	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
delta-BHC	ND		1.7	0.31	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Dieldrin	ND		1.7	0.40	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Endosulfan I	ND		1.7	0.32	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Endosulfan II	ND		1.7	0.30	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Endrin	ND		1.7	0.33	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Endrin ketone	ND		1.7	0.41	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Heptachlor	ND		1.7	0.36	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Methoxychlor	ND		1.7	0.34	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
Toxaphene	ND		17	9.6	ug/Kg		09/14/21 14:17	09/15/21 09:12	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		09/14/21 14:17	09/15/21 09:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*45 - 120*	*09/14/21 14:17*	*09/15/21 09:12*	*1*
DCB Decachlorobiphenyl	*110*		*45 - 120*	*09/14/21 14:17*	*09/15/21 09:12*	*1*
Tetrachloro-m-xylene	*95*		*30 - 124*	*09/14/21 14:17*	*09/15/21 09:12*	*1*
Tetrachloro-m-xylene	*92*		*30 - 124*	*09/14/21 14:17*	*09/15/21 09:12*	*1*

Lab Sample ID: LCS 480-596286/2-A
Matrix: Solid
Analysis Batch: 596342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	15.2		ug/Kg		93	56 - 120
4,4'-DDE	16.4	13.7		ug/Kg		84	44 - 120
4,4'-DDT	16.4	14.8		ug/Kg		91	38 - 120
Aldrin	16.4	12.8		ug/Kg		78	38 - 120
alpha-BHC	16.4	11.2		ug/Kg		69	39 - 120
beta-BHC	16.4	14.0		ug/Kg		86	40 - 120
cis-Chlordane	16.4	13.2		ug/Kg		81	47 - 120
delta-BHC	16.4	13.6		ug/Kg		83	45 - 120
Dieldrin	16.4	15.3		ug/Kg		94	58 - 120
Endosulfan I	16.4	14.6		ug/Kg		89	49 - 120
Endosulfan II	16.4	16.0		ug/Kg		98	55 - 120
Endosulfan sulfate	16.4	17.0		ug/Kg		104	49 - 124
Endrin	16.4	15.3		ug/Kg		93	58 - 120
Endrin aldehyde	16.4	13.2		ug/Kg		81	37 - 121
Endrin ketone	16.4	15.6		ug/Kg		95	46 - 123
gamma-BHC (Lindane)	16.4	12.3		ug/Kg		75	50 - 120
Heptachlor	16.4	13.0		ug/Kg		80	50 - 120
Heptachlor epoxide	16.4	15.2		ug/Kg		93	50 - 120
Methoxychlor	16.4	15.6		ug/Kg		95	58 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-596286/2-A
Matrix: Solid
Analysis Batch: 596342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596286

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-Chlordane			16.4	13.6		ug/Kg		83	48 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*45 - 120*
DCB Decachlorobiphenyl	*101*		*45 - 120*
Tetrachloro-m-xylene	*89*		*30 - 124*
Tetrachloro-m-xylene	*81*		*30 - 124*

Lab Sample ID: 480-189504-4 MS
Matrix: Solid
Analysis Batch: 596342

Client Sample ID: TP-30 4-6 FT
Prep Type: Total/NA
Prep Batch: 596286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD	ND		17.6	14.3	J	ug/Kg	☼	81	37 - 126		
4,4'-DDE	ND		17.6	16.9	J	ug/Kg	☼	96	34 - 120		
4,4'-DDT	9.8	J	17.6	24.8	J	ug/Kg	☼	85	43 - 123		
Aldrin	ND		17.6	15.3	J	ug/Kg	☼	87	37 - 125		
alpha-BHC	ND		17.6	18.3	J	ug/Kg	☼	104	39 - 120		
beta-BHC	ND	F2	17.6	10.0	J	ug/Kg	☼	57	36 - 120		
cis-Chlordane	ND		17.6	19.7	J	ug/Kg	☼	NC	35 - 120		
delta-BHC	ND		17.6	18.5	J	ug/Kg	☼	105	34 - 120		
Dieldrin	ND	F1 F2	17.6	20.3	J	ug/Kg	☼	115	45 - 120		
Endosulfan I	ND		17.6	12.5	J	ug/Kg	☼	71	39 - 120		
Endosulfan II	ND		17.6	11.3	J	ug/Kg	☼	64	34 - 126		
Endosulfan sulfate	ND		17.6	15.8	J	ug/Kg	☼	89	27 - 130		
Endrin	ND		17.6	12.9	J	ug/Kg	☼	73	47 - 121		
Endrin aldehyde	ND	F1	17.6	ND	F1	ug/Kg	☼	0	33 - 123		
Endrin ketone	ND		17.6	18.4	J	ug/Kg	☼	105	43 - 126		
gamma-BHC (Lindane)	ND		17.6	17.7	J	ug/Kg	☼	100	50 - 120		
Heptachlor	ND		17.6	13.2	J	ug/Kg	☼	75	42 - 120		
Heptachlor epoxide	ND		17.6	14.1	J	ug/Kg	☼	80	40 - 120		
Methoxychlor	ND		17.6	17.9	J	ug/Kg	☼	101	44 - 150		
trans-Chlordane	ND		17.6	15.7	J	ug/Kg	☼	89	31 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*1606*	*S1+*	*45 - 120*
DCB Decachlorobiphenyl	*1887*	*S1+*	*45 - 120*
Tetrachloro-m-xylene	*176*	*S1+*	*30 - 124*
Tetrachloro-m-xylene	*138*	*S1+*	*30 - 124*

Lab Sample ID: 480-189504-4 MSD
Matrix: Solid
Analysis Batch: 596342

Client Sample ID: TP-30 4-6 FT
Prep Type: Total/NA
Prep Batch: 596286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		18.0	16.3	J	ug/Kg	☼	90	37 - 126	13	21
4,4'-DDE	ND		18.0	19.2	J	ug/Kg	☼	106	34 - 120	13	18
4,4'-DDT	9.8	J	18.0	26.8	J	ug/Kg	☼	95	43 - 123	8	25

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189504-4 MSD
Matrix: Solid
Analysis Batch: 596342

Client Sample ID: TP-30 4-6 FT
Prep Type: Total/NA
Prep Batch: 596286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		18.0	16.8	J	ug/Kg	☼	93	37 - 125	9	12
alpha-BHC	ND		18.0	18.7	J	ug/Kg	☼	104	39 - 120	2	15
beta-BHC	ND	F2	18.0	16.9	J F2	ug/Kg	☼	94	36 - 120	52	19
cis-Chlordane	ND	F1	18.0	19.7	J	ug/Kg	☼	109	35 - 120	0	23
delta-BHC	ND		18.0	19.5	J	ug/Kg	☼	108	34 - 120	5	14
Dieldrin	ND	F1 F2	18.0	25.3	J F1 F2	ug/Kg	☼	140	45 - 120	22	12
Endosulfan I	ND		18.0	11.2	J	ug/Kg	☼	62	39 - 120	11	18
Endosulfan II	ND		18.0	12.9	J	ug/Kg	☼	72	34 - 126	13	26
Endosulfan sulfate	ND		18.0	13.3	J	ug/Kg	☼	74	27 - 130	17	35
Endrin	ND		18.0	15.8	J	ug/Kg	☼	87	47 - 121	20	20
Endrin aldehyde	ND	F1	18.0	10.5	J	ug/Kg	☼	58	33 - 123	NC	47
Endrin ketone	ND		18.0	18.6	J	ug/Kg	☼	103	43 - 126	1	37
gamma-BHC (Lindane)	ND		18.0	17.9	J	ug/Kg	☼	99	50 - 120	1	12
Heptachlor	ND		18.0	14.8	J	ug/Kg	☼	82	42 - 120	11	22
Heptachlor epoxide	ND		18.0	14.7	J	ug/Kg	☼	81	40 - 120	4	15
Methoxychlor	ND		18.0	21.2	J	ug/Kg	☼	118	44 - 150	17	24
trans-Chlordane	ND		18.0	16.7	J	ug/Kg	☼	93	31 - 120	6	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*1304*	*S1+*	*45 - 120*
DCB Decachlorobiphenyl	*1008*	*S1+*	*45 - 120*
Tetrachloro-m-xylene	*171*	*S1+*	*30 - 124*
Tetrachloro-m-xylene	*126*	*S1+*	*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-596287/1-A
Matrix: Solid
Analysis Batch: 596293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg		09/14/21 14:22	09/15/21 00:12	1
PCB-1221	ND		0.23	0.045	mg/Kg		09/14/21 14:22	09/15/21 00:12	1
PCB-1232	ND		0.23	0.045	mg/Kg		09/14/21 14:22	09/15/21 00:12	1
PCB-1242	ND		0.23	0.045	mg/Kg		09/14/21 14:22	09/15/21 00:12	1
PCB-1248	ND		0.23	0.045	mg/Kg		09/14/21 14:22	09/15/21 00:12	1
PCB-1254	ND		0.23	0.11	mg/Kg		09/14/21 14:22	09/15/21 00:12	1
PCB-1260	ND		0.23	0.11	mg/Kg		09/14/21 14:22	09/15/21 00:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*09/14/21 14:22*	*09/15/21 00:12*	*1*
Tetrachloro-m-xylene	*124*		*60 - 154*	*09/14/21 14:22*	*09/15/21 00:12*	*1*
DCB Decachlorobiphenyl	*177*	*S1+*	*65 - 174*	*09/14/21 14:22*	*09/15/21 00:12*	*1*
DCB Decachlorobiphenyl	*139*		*65 - 174*	*09/14/21 14:22*	*09/15/21 00:12*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-596287/2-A
Matrix: Solid
Analysis Batch: 596293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.37	3.35		mg/Kg		141	51 - 185		
PCB-1260			2.37	3.61		mg/Kg		152	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*147*		*60 - 154*
Tetrachloro-m-xylene	*136*		*60 - 154*
DCB Decachlorobiphenyl	*194*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*152*		*65 - 174*

Lab Sample ID: 480-189504-5 MS
Matrix: Solid
Analysis Batch: 596293

Client Sample ID: TP-34 0-2 FT
Prep Type: Total/NA
Prep Batch: 596287

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.54	3.03		mg/Kg	☼	119	50 - 177		
PCB-1260	ND		2.54	3.30		mg/Kg	☼	130	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*152*		*60 - 154*
Tetrachloro-m-xylene	*141*		*60 - 154*
DCB Decachlorobiphenyl	*208*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*159*		*65 - 174*

Lab Sample ID: 480-189504-5 MSD
Matrix: Solid
Analysis Batch: 596293

Client Sample ID: TP-34 0-2 FT
Prep Type: Total/NA
Prep Batch: 596287

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.55	2.47		mg/Kg	☼	97	50 - 177	20	50
PCB-1260	ND		2.55	2.55		mg/Kg	☼	100	33 - 200	26	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*141*		*60 - 154*
Tetrachloro-m-xylene	*134*		*60 - 154*
DCB Decachlorobiphenyl	*187*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*147*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-596285/1-A
Matrix: Solid
Analysis Batch: 596560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.3	ug/Kg		09/14/21 14:13	09/16/21 18:47	1
2,4-D	ND		16	10	ug/Kg		09/14/21 14:13	09/16/21 18:47	1
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		09/14/21 14:13	09/16/21 18:47	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 480-596285/1-A
Matrix: Solid
Analysis Batch: 596560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596285

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	39		28 - 129	09/14/21 14:13	09/16/21 18:47	1
2,4-Dichlorophenylacetic acid	45		28 - 129	09/14/21 14:13	09/16/21 18:47	1

Lab Sample ID: LCS 480-596285/2-A
Matrix: Solid
Analysis Batch: 596560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	66.0	40.6		ug/Kg		61	41 - 120
2,4-D	66.0	39.7		ug/Kg		60	40 - 120
Silvex (2,4,5-TP)	66.0	38.8		ug/Kg		59	39 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	64		28 - 129
2,4-Dichlorophenylacetic acid	90		28 - 129

Lab Sample ID: 480-189504-2 MS
Matrix: Solid
Analysis Batch: 596560

Client Sample ID: TP-22 0-2 FT
Prep Type: Total/NA
Prep Batch: 596285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	ND		79.5	43.0		ug/Kg	☼	54	29 - 123
2,4-D	ND		79.5	42.5		ug/Kg	☼	53	32 - 115
Silvex (2,4,5-TP)	ND		79.5	42.5		ug/Kg	☼	54	22 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	59		28 - 129
2,4-Dichlorophenylacetic acid	83		28 - 129

Lab Sample ID: 480-189504-2 MSD
Matrix: Solid
Analysis Batch: 596560

Client Sample ID: TP-22 0-2 FT
Prep Type: Total/NA
Prep Batch: 596285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		79.9	44.2		ug/Kg	☼	55	29 - 123	3	50
2,4-D	ND		79.9	42.5		ug/Kg	☼	53	32 - 115	0	50
Silvex (2,4,5-TP)	ND		79.9	43.7		ug/Kg	☼	55	22 - 140	3	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	61		28 - 129
2,4-Dichlorophenylacetic acid	89		28 - 129

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-171429/1-A
Matrix: Solid
Analysis Batch: 171474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.16	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.039	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.022	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.020	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.025	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.018	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.012	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.020	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.021	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.015	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.023	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorobutanesulfonic acid (PFBS)	0.0161	J	0.20	0.0093	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.014	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.20	0.015	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorooctanesulfonic acid (PFOS)	0.0210	J	0.20	0.016	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.012	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.017	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.037	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.046	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0	0.031	ug/Kg		09/16/21 16:16	09/17/21 16:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.016	ug/Kg		09/16/21 16:16	09/17/21 16:41	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*93*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C4 PFHpA	*93*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C4 PFOA	*93*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C4 PFOS	*85*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C5 PFNA	*87*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C4 PFBA	*88*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C2 PFHxA	*86*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C2 PFDA	*81*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C2 PFUnA	*66*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C2 PFDoA	*58*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C8 FOSA	*70*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C5 PFPeA	*93*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C2 PFTeDA	*60*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
d3-NMeFOSAA	*85*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
d5-NEtFOSAA	*71*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
M2-6:2 FTS	*111*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
M2-8:2 FTS	*93*		*25 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*
13C3 PFBS	*101*		*50 - 150*	*09/16/21 16:16*	*09/17/21 16:41*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-171429/2-A
Matrix: Solid
Analysis Batch: 171474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.35		ug/Kg		117	70 - 130
Perfluoropentanoic acid (PFPeA)	2.00	2.21		ug/Kg		111	70 - 130
Perfluorohexanoic acid (PFHxA)	2.00	2.24		ug/Kg		112	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.00	2.17		ug/Kg		109	70 - 130
Perfluorooctanoic acid (PFOA)	2.00	2.20		ug/Kg		110	70 - 130
Perfluorononanoic acid (PFNA)	2.00	2.17		ug/Kg		108	70 - 130
Perfluorodecanoic acid (PFDA)	2.00	2.21		ug/Kg		110	70 - 130
Perfluoroundecanoic acid (PFUnA)	2.00	2.41		ug/Kg		121	70 - 130
Perfluorododecanoic acid (PFDoA)	2.00	2.22		ug/Kg		111	70 - 130
Perfluorotridecanoic acid (PFTriA)	2.00	2.13		ug/Kg		107	70 - 130
Perfluorotetradecanoic acid (PFTeA)	2.00	2.43		ug/Kg		122	70 - 130
Perfluorobutanesulfonic acid (PFBS)	1.77	1.89		ug/Kg		107	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.99		ug/Kg		109	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.21		ug/Kg		116	70 - 130
Perfluorooctanesulfonic acid (PFOS)	1.86	2.04		ug/Kg		110	70 - 130
Perfluorodecanesulfonic acid (PFDS)	1.93	1.82		ug/Kg		94	70 - 130
Perfluorooctanesulfonamide (PFOSA)	2.00	2.19		ug/Kg		109	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.31		ug/Kg		116	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.40		ug/Kg		120	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.90	2.02		ug/Kg		107	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.92	2.04		ug/Kg		107	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
18O2 PFHxS	*89*		*50 - 150*
13C4 PFHpA	*89*		*50 - 150*
13C4 PFOA	*89*		*50 - 150*
13C4 PFOS	*86*		*50 - 150*
13C5 PFNA	*85*		*50 - 150*
13C4 PFBA	*87*		*25 - 150*
13C2 PFHxA	*87*		*50 - 150*
13C2 PFDA	*86*		*50 - 150*
13C2 PFUnA	*74*		*50 - 150*
13C2 PFDoA	*67*		*50 - 150*
13C8 FOSA	*73*		*25 - 150*
13C5 PFPeA	*92*		*25 - 150*
13C2 PFTeDA	*68*		*50 - 150*
d3-NMeFOSAA	*89*		*50 - 150*
d5-NEtFOSAA	*76*		*50 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-171429/2-A
Matrix: Solid
Analysis Batch: 171474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171429

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*99*		*25 - 150*
M2-8:2 FTS	*90*		*25 - 150*
13C3 PFBS	*100*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-596498/1-A
Matrix: Solid
Analysis Batch: 596796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.5	4.6	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Antimony	ND		15.7	0.42	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Arsenic	ND		2.1	0.42	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Barium	ND		0.52	0.12	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Beryllium	ND		0.21	0.029	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Cadmium	ND		0.21	0.031	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Calcium	ND		52.4	3.5	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Chromium	ND		0.52	0.21	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Cobalt	ND		0.52	0.052	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Copper	ND		1.0	0.22	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Iron	ND		10.5	3.7	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Lead	ND		1.0	0.25	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Magnesium	ND		21.0	0.97	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Manganese	0.0367	J	0.21	0.034	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Nickel	ND		5.2	0.24	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Potassium	ND		31.4	21.0	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Selenium	ND		4.2	0.42	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Silver	ND		0.63	0.21	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Sodium	53.49	J	147	13.6	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Thallium	ND		6.3	0.31	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Vanadium	ND		0.52	0.12	mg/Kg		09/15/21 16:43	09/16/21 16:43	1
Zinc	ND		2.1	0.67	mg/Kg		09/15/21 16:43	09/16/21 16:43	1

Lab Sample ID: LCSSRM 480-596498/2-A
Matrix: Solid
Analysis Batch: 596796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596498

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			8190	9594		mg/Kg		117.1	49.6 - 149.0		
Antimony			110	94.37		mg/Kg		85.8	23.5 - 304.5		
Arsenic			162	152.5		mg/Kg		94.1	67.3 - 125.3		
Barium			138	232.1		mg/Kg		168.2	129.7 - 215.9		
Beryllium			157	158.8		mg/Kg		101.2	80.9 - 135.0		
Cadmium			135	124.6		mg/Kg		92.3	76.3 - 126.7		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-596498/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 596796
Prep Batch: 596498

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	4790	4585		mg/Kg		95.7	72.2 - 126.7
Chromium	117	143.6		mg/Kg		122.8	92.3 - 170.9
Cobalt	92.6	128.8		mg/Kg		139.1	98.1 - 163.1
Copper	143	53.24		mg/Kg		37.2	28.7 - 48.0
Iron	15100	14350		mg/Kg		95.1	32.6 - 153.6
Lead	77.6	148.1		mg/Kg		190.9	120.2 - 215.2
Magnesium	2320	2395		mg/Kg		103.2	62.1 - 137.9
Manganese	319	260.9		mg/Kg		81.8	62.4 - 106.6
Nickel	79.9	58.71		mg/Kg		73.5	47.2 - 87.6
Potassium	2050	2171		mg/Kg		105.9	58.0 - 139.0
Selenium	172	151.5		mg/Kg		88.1	65.7 - 128.5
Silver	24.7	31.76		mg/Kg		128.6	93.1 - 178.5
Sodium	137	165.8		mg/Kg		121.0	33.9 - 160.6
Thallium	88.0	121.5		mg/Kg		138.1	86.5 - 167.0
Vanadium	99.9	63.07		mg/Kg		63.1	37.0 - 88.4
Zinc	312	147.4		mg/Kg		47.2	35.6 - 65.7

Lab Sample ID: 480-189504-4 MS
Client Sample ID: TP-30 4-6 FT
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 596796
Prep Batch: 596498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	13800		2230	24310	4	mg/Kg	☼	470	75 - 125
Antimony	0.83	J F1	44.6	23.39	F1	mg/Kg	☼	51	75 - 125
Arsenic	9.7		44.6	52.79		mg/Kg	☼	97	75 - 125
Barium	137	F1	44.6	202.9	F1	mg/Kg	☼	148	75 - 125
Beryllium	1.1		44.6	42.87		mg/Kg	☼	94	75 - 125
Cadmium	1.3		44.6	41.60		mg/Kg	☼	90	75 - 125
Calcium	53800		2230	45760	4	mg/Kg	☼	-360	75 - 125
Chromium	112	F1 F2	44.6	258.6	F1	mg/Kg	☼	330	75 - 125
Cobalt	10.2		44.6	58.25		mg/Kg	☼	108	75 - 125
Copper	59.7	F2	44.6	113.3		mg/Kg	☼	120	75 - 125
Iron	41900	F2	2230	50620	4	mg/Kg	☼	393	75 - 125
Lead	218	F2	44.6	295.1	4	mg/Kg	☼	173	75 - 125
Magnesium	8680	F1	2230	12130	F1	mg/Kg	☼	155	75 - 125
Manganese	2640	F2 B	44.6	3483	4	mg/Kg	☼	1888	75 - 125
Nickel	48.4		44.6	101.0		mg/Kg	☼	118	75 - 125
Potassium	1900	F1	2230	6672	F1	mg/Kg	☼	214	75 - 125
Selenium	4.0	J	44.6	41.51		mg/Kg	☼	84	75 - 125
Silver	0.37	J	11.1	10.32		mg/Kg	☼	89	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-189504-4 MS
Matrix: Solid
Analysis Batch: 596796

Client Sample ID: TP-30 4-6 FT
Prep Type: Total/NA
Prep Batch: 596498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	212	B	2230	2307		mg/Kg	☼	94	75 - 125
Thallium	ND		44.6	45.49		mg/Kg	☼	102	75 - 125
Vanadium	54.5	F1 F2	44.6	129.3	F1	mg/Kg	☼	168	75 - 125
Zinc	210		44.6	235.4	4	mg/Kg	☼	57	75 - 125

Lab Sample ID: 480-189504-4 MSD
Matrix: Solid
Analysis Batch: 596796

Client Sample ID: TP-30 4-6 FT
Prep Type: Total/NA
Prep Batch: 596498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	13800		2120	23950	4	mg/Kg	☼	477	75 - 125	2	20
Antimony	0.83	J F1	42.4	20.39	F1	mg/Kg	☼	46	75 - 125	14	20
Arsenic	9.7		42.4	48.71		mg/Kg	☼	92	75 - 125	8	20
Barium	137	F1	42.4	244.8	F1	mg/Kg	☼	255	75 - 125	19	20
Beryllium	1.1		42.4	40.10		mg/Kg	☼	92	75 - 125	7	20
Cadmium	1.3		42.4	39.22		mg/Kg	☼	89	75 - 125	6	20
Calcium	53800		2120	47120	4	mg/Kg	☼	-314	75 - 125	3	20
Chromium	112	F1 F2	42.4	174.9	F1 F2	mg/Kg	☼	149	75 - 125	39	20
Cobalt	10.2		42.4	55.02		mg/Kg	☼	106	75 - 125	6	20
Copper	59.7	F2	42.4	92.03	F2	mg/Kg	☼	76	75 - 125	21	20
Iron	41900	F2	2120	40040	4 F2	mg/Kg	☼	-86	75 - 125	23	20
Lead	218	F2	42.4	381.4	4 F2	mg/Kg	☼	385	75 - 125	26	20
Magnesium	8680	F1	2120	13490	4	mg/Kg	☼	227	75 - 125	11	20
Manganese	2640	F2 B	42.4	2420	4 F2	mg/Kg	☼	-522	75 - 125	36	20
Nickel	48.4		42.4	89.81		mg/Kg	☼	98	75 - 125	12	20
Potassium	1900	F1	2120	6342	F1	mg/Kg	☼	209	75 - 125	5	20
Selenium	4.0	J	42.4	37.26		mg/Kg	☼	79	75 - 125	11	20
Silver	0.37	J	10.6	9.76		mg/Kg	☼	89	75 - 125	6	20
Sodium	212	B	2120	2213		mg/Kg	☼	94	75 - 125	4	20
Thallium	ND		42.4	41.75		mg/Kg	☼	98	75 - 125	9	20
Vanadium	54.5	F1 F2	42.4	95.64	F2	mg/Kg	☼	97	75 - 125	30	20
Zinc	210		42.4	235.9	4	mg/Kg	☼	61	75 - 125	0	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-596329/1-A
Matrix: Solid
Analysis Batch: 596728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0046	mg/Kg		09/16/21 14:16	09/16/21 15:48	1

Lab Sample ID: LCSSRM 480-596329/2-A ^10
Matrix: Solid
Analysis Batch: 596728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596329

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	20.88		mg/Kg		76.8	59.9 - 140.1

GC/MS VOA

Prep Batch: 596257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	5035A_L	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	5035A_L	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	5035A_L	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	5035A_L	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	5035A_L	
MB 480-596257/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-596257/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 596324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	8260C	596257
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	8260C	596257
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	8260C	596257
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	8260C	596257
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	8260C	596257
MB 480-596257/3-A	Method Blank	Total/NA	Solid	8260C	596257
LCS 480-596257/1-A	Lab Control Sample	Total/NA	Solid	8260C	596257

GC/MS Semi VOA

Prep Batch: 596346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	3550C	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	3550C	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	3550C	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	3550C	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	3550C	
MB 480-596346/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596346/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189504-1 MS	TP-6 3-4 FT	Total/NA	Solid	3550C	
480-189504-1 MSD	TP-6 3-4 FT	Total/NA	Solid	3550C	

Analysis Batch: 596678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	8270D	596346
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	8270D	596346
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	8270D	596346
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	8270D	596346
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	8270D	596346
MB 480-596346/1-A	Method Blank	Total/NA	Solid	8270D	596346
LCS 480-596346/2-A	Lab Control Sample	Total/NA	Solid	8270D	596346
480-189504-1 MS	TP-6 3-4 FT	Total/NA	Solid	8270D	596346
480-189504-1 MSD	TP-6 3-4 FT	Total/NA	Solid	8270D	596346

GC Semi VOA

Prep Batch: 596285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	8151A	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	8151A	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	8151A	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 596285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	8151A	
MB 480-596285/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-596285/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-189504-2 MS	TP-22 0-2 FT	Total/NA	Solid	8151A	
480-189504-2 MSD	TP-22 0-2 FT	Total/NA	Solid	8151A	

Prep Batch: 596286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	3550C	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	3550C	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	3550C	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	3550C	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	3550C	
MB 480-596286/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596286/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189504-4 MS	TP-30 4-6 FT	Total/NA	Solid	3550C	
480-189504-4 MSD	TP-30 4-6 FT	Total/NA	Solid	3550C	

Prep Batch: 596287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	3550C	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	3550C	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	3550C	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	3550C	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	3550C	
MB 480-596287/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-596287/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189504-5 MS	TP-34 0-2 FT	Total/NA	Solid	3550C	
480-189504-5 MSD	TP-34 0-2 FT	Total/NA	Solid	3550C	

Analysis Batch: 596293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	8082A	596287
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	8082A	596287
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	8082A	596287
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	8082A	596287
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	8082A	596287
MB 480-596287/1-A	Method Blank	Total/NA	Solid	8082A	596287
LCS 480-596287/2-A	Lab Control Sample	Total/NA	Solid	8082A	596287
480-189504-5 MS	TP-34 0-2 FT	Total/NA	Solid	8082A	596287
480-189504-5 MSD	TP-34 0-2 FT	Total/NA	Solid	8082A	596287

Analysis Batch: 596342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	8081B	596286
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	8081B	596286
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	8081B	596286
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	8081B	596286
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	8081B	596286
MB 480-596286/1-A	Method Blank	Total/NA	Solid	8081B	596286
LCS 480-596286/2-A	Lab Control Sample	Total/NA	Solid	8081B	596286

GC Semi VOA (Continued)

Analysis Batch: 596342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-4 MS	TP-30 4-6 FT	Total/NA	Solid	8081B	596286
480-189504-4 MSD	TP-30 4-6 FT	Total/NA	Solid	8081B	596286

Analysis Batch: 596560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	8151A	596285
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	8151A	596285
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	8151A	596285
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	8151A	596285
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	8151A	596285
MB 480-596285/1-A	Method Blank	Total/NA	Solid	8151A	596285
LCS 480-596285/2-A	Lab Control Sample	Total/NA	Solid	8151A	596285
480-189504-2 MS	TP-22 0-2 FT	Total/NA	Solid	8151A	596285
480-189504-2 MSD	TP-22 0-2 FT	Total/NA	Solid	8151A	596285

LCMS

Prep Batch: 171429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	SHAKE	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	SHAKE	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	SHAKE	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	SHAKE	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	SHAKE	
MB 200-171429/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-171429/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 171474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	537 (modified)	171429
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	537 (modified)	171429
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	537 (modified)	171429
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	537 (modified)	171429
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	537 (modified)	171429
MB 200-171429/1-A	Method Blank	Total/NA	Solid	537 (modified)	171429
LCS 200-171429/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	171429

Metals

Prep Batch: 596329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	7471B	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	7471B	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	7471B	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	7471B	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	7471B	
MB 480-596329/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-596329/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 596498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 596498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	3050B	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	3050B	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	3050B	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	3050B	
MB 480-596498/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-596498/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-189504-4 MS	TP-30 4-6 FT	Total/NA	Solid	3050B	
480-189504-4 MSD	TP-30 4-6 FT	Total/NA	Solid	3050B	

Analysis Batch: 596728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	7471B	596329
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	7471B	596329
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	7471B	596329
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	7471B	596329
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	7471B	596329
MB 480-596329/1-A	Method Blank	Total/NA	Solid	7471B	596329
LCSSRM 480-596329/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	596329

Analysis Batch: 596796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	6010C	596498
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	6010C	596498
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	6010C	596498
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	6010C	596498
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	6010C	596498
MB 480-596498/1-A	Method Blank	Total/NA	Solid	6010C	596498
LCSSRM 480-596498/2-A	Lab Control Sample	Total/NA	Solid	6010C	596498
480-189504-4 MS	TP-30 4-6 FT	Total/NA	Solid	6010C	596498
480-189504-4 MSD	TP-30 4-6 FT	Total/NA	Solid	6010C	596498

General Chemistry

Analysis Batch: 596315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189504-1	TP-6 3-4 FT	Total/NA	Solid	Moisture	
480-189504-2	TP-22 0-2 FT	Total/NA	Solid	Moisture	
480-189504-3	TP-23 1-3 FT	Total/NA	Solid	Moisture	
480-189504-4	TP-30 4-6 FT	Total/NA	Solid	Moisture	
480-189504-5	TP-34 0-2 FT	Total/NA	Solid	Moisture	
480-189504-5 MS	TP-34 0-2 FT	Total/NA	Solid	Moisture	
480-189504-5 MSD	TP-34 0-2 FT	Total/NA	Solid	Moisture	

Client Sample ID: TP-6 3-4 FT
Lab Sample ID: 480-189504-1
Date Collected: 09/13/21 12:00
Matrix: Solid
Date Received: 09/14/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596315	09/14/21 16:03	JMM	TAL BUF

Client Sample ID: TP-6 3-4 FT
Lab Sample ID: 480-189504-1
Date Collected: 09/13/21 12:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596257	09/14/21 12:01	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596324	09/14/21 20:41	WJD	TAL BUF
Total/NA	Prep	3550C			596346	09/15/21 06:51	SMP	TAL BUF
Total/NA	Analysis	8270D		1	596678	09/16/21 19:21	PJQ	TAL BUF
Total/NA	Prep	3550C			596286	09/14/21 14:17	ADH	TAL BUF
Total/NA	Analysis	8081B		1	596342	09/15/21 10:50	JLS	TAL BUF
Total/NA	Prep	3550C			596287	09/14/21 14:22	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596293	09/15/21 01:16	W1T	TAL BUF
Total/NA	Prep	8151A			596285	09/14/21 14:13	ADH	TAL BUF
Total/NA	Analysis	8151A		1	596560	09/16/21 21:16	MAN	TAL BUF
Total/NA	Prep	SHAKE			171429	09/16/21 16:16	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	171474	09/17/21 16:58	ND	TAL BUR
Total/NA	Prep	3050B			596498	09/15/21 16:43	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596796	09/16/21 17:01	AMH	TAL BUF
Total/NA	Prep	7471B			596329	09/16/21 14:16	BMB	TAL BUF
Total/NA	Analysis	7471B		1	596728	09/16/21 16:09	BMB	TAL BUF

Client Sample ID: TP-22 0-2 FT
Lab Sample ID: 480-189504-2
Date Collected: 09/13/21 11:30
Matrix: Solid
Date Received: 09/14/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596315	09/14/21 16:03	JMM	TAL BUF

Client Sample ID: TP-22 0-2 FT
Lab Sample ID: 480-189504-2
Date Collected: 09/13/21 11:30
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596257	09/14/21 12:01	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596324	09/14/21 21:04	WJD	TAL BUF
Total/NA	Prep	3550C			596346	09/15/21 06:51	SMP	TAL BUF
Total/NA	Analysis	8270D		1	596678	09/16/21 20:08	PJQ	TAL BUF
Total/NA	Prep	3550C			596286	09/14/21 14:17	ADH	TAL BUF
Total/NA	Analysis	8081B		1	596342	09/15/21 11:09	JLS	TAL BUF
Total/NA	Prep	3550C			596287	09/14/21 14:22	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596293	09/15/21 01:29	W1T	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Client Sample ID: TP-22 0-2 FT

Lab Sample ID: 480-189504-2
Date Collected: 09/13/21 11:30
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			596285	09/14/21 14:13	ADH	TAL BUF
Total/NA	Analysis	8151A		1	596560	09/16/21 20:46	MAN	TAL BUF
Total/NA	Prep	SHAKE			171429	09/16/21 16:16	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	171474	09/17/21 17:06	ND	TAL BUR
Total/NA	Prep	3050B			596498	09/15/21 16:43	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596796	09/16/21 17:16	AMH	TAL BUF
Total/NA	Prep	7471B			596329	09/16/21 14:16	BMB	TAL BUF
Total/NA	Analysis	7471B		1	596728	09/16/21 16:10	BMB	TAL BUF

Client Sample ID: TP-23 1-3 FT

Lab Sample ID: 480-189504-3
Date Collected: 09/13/21 10:00
Matrix: Solid
Date Received: 09/14/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596315	09/14/21 16:03	JMM	TAL BUF

Client Sample ID: TP-23 1-3 FT

Lab Sample ID: 480-189504-3
Date Collected: 09/13/21 10:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596257	09/14/21 12:01	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596324	09/14/21 21:28	WJD	TAL BUF
Total/NA	Prep	3550C			596346	09/15/21 06:51	SMP	TAL BUF
Total/NA	Analysis	8270D		1	596678	09/16/21 20:32	PJQ	TAL BUF
Total/NA	Prep	3550C			596286	09/14/21 14:17	ADH	TAL BUF
Total/NA	Analysis	8081B		1	596342	09/15/21 11:29	JLS	TAL BUF
Total/NA	Prep	3550C			596287	09/14/21 14:22	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596293	09/15/21 01:41	W1T	TAL BUF
Total/NA	Prep	8151A			596285	09/14/21 14:13	ADH	TAL BUF
Total/NA	Analysis	8151A		1	596560	09/16/21 21:45	MAN	TAL BUF
Total/NA	Prep	SHAKE			171429	09/16/21 16:16	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	171474	09/17/21 17:14	ND	TAL BUR
Total/NA	Prep	3050B			596498	09/15/21 16:43	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596796	09/16/21 17:20	AMH	TAL BUF
Total/NA	Prep	7471B			596329	09/16/21 14:16	BMB	TAL BUF
Total/NA	Analysis	7471B		1	596728	09/16/21 16:11	BMB	TAL BUF

Client Sample ID: TP-30 4-6 FT

Lab Sample ID: 480-189504-4
Date Collected: 09/13/21 11:00
Matrix: Solid
Date Received: 09/14/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596315	09/14/21 16:03	JMM	TAL BUF

Client Sample ID: TP-30 4-6 FT
Lab Sample ID: 480-189504-4

Date Collected: 09/13/21 11:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596257	09/14/21 12:01	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596324	09/14/21 21:51	WJD	TAL BUF
Total/NA	Prep	3550C			596346	09/15/21 06:51	SMP	TAL BUF
Total/NA	Analysis	8270D		5	596678	09/16/21 20:56	PJQ	TAL BUF
Total/NA	Prep	3550C			596286	09/14/21 14:17	ADH	TAL BUF
Total/NA	Analysis	8081B		20	596342	09/15/21 10:30	JLS	TAL BUF
Total/NA	Prep	3550C			596287	09/14/21 14:22	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596293	09/15/21 02:19	W1T	TAL BUF
Total/NA	Prep	8151A			596285	09/14/21 14:13	ADH	TAL BUF
Total/NA	Analysis	8151A		1	596560	09/16/21 22:15	MAN	TAL BUF
Total/NA	Prep	SHAKE			171429	09/16/21 16:16	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	171474	09/17/21 17:22	ND	TAL BUR
Total/NA	Prep	3050B			596498	09/15/21 16:43	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596796	09/16/21 17:23	AMH	TAL BUF
Total/NA	Prep	7471B			596329	09/16/21 14:16	BMB	TAL BUF
Total/NA	Analysis	7471B		1	596728	09/16/21 16:13	BMB	TAL BUF

Client Sample ID: TP-34 0-2 FT
Lab Sample ID: 480-189504-5

Date Collected: 09/13/21 13:00
Matrix: Solid
Date Received: 09/14/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	596315	09/14/21 16:03	JMM	TAL BUF

Client Sample ID: TP-34 0-2 FT
Lab Sample ID: 480-189504-5

Date Collected: 09/13/21 13:00
Matrix: Solid
Date Received: 09/14/21 08:00
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596257	09/14/21 12:01	WJD	TAL BUF
Total/NA	Analysis	8260C		1	596324	09/14/21 22:14	WJD	TAL BUF
Total/NA	Prep	3550C			596346	09/15/21 06:51	SMP	TAL BUF
Total/NA	Analysis	8270D		1	596678	09/16/21 21:19	PJQ	TAL BUF
Total/NA	Prep	3550C			596286	09/14/21 14:17	ADH	TAL BUF
Total/NA	Analysis	8081B		1	596342	09/15/21 11:49	JLS	TAL BUF
Total/NA	Prep	3550C			596287	09/14/21 14:22	ADH	TAL BUF
Total/NA	Analysis	8082A		1	596293	09/15/21 01:03	W1T	TAL BUF
Total/NA	Prep	8151A			596285	09/14/21 14:13	ADH	TAL BUF
Total/NA	Analysis	8151A		1	596560	09/16/21 22:45	MAN	TAL BUF
Total/NA	Prep	SHAKE			171429	09/16/21 16:16	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	171474	09/17/21 17:31	ND	TAL BUR
Total/NA	Prep	3050B			596498	09/15/21 16:43	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596796	09/16/21 17:42	AMH	TAL BUF
Total/NA	Prep	7471B			596329	09/16/21 14:16	BMB	TAL BUF
Total/NA	Analysis	7471B		1	596728	09/16/21 16:14	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-22

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189504-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189504-1	TP-6 3-4 FT	Solid	09/13/21 12:00	09/14/21 08:00
480-189504-2	TP-22 0-2 FT	Solid	09/13/21 11:30	09/14/21 08:00
480-189504-3	TP-23 1-3 FT	Solid	09/13/21 10:00	09/14/21 08:00
480-189504-4	TP-30 4-6 FT	Solid	09/13/21 11:00	09/14/21 08:00
480-189504-5	TP-34 0-2 FT	Solid	09/13/21 13:00	09/14/21 08:00

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins
Environment Testing
TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Bryan Mayback	Site Contact: Ethan Smith	Date:	COC No:
Benchmark-Turnkey Environmental Engineering and Science	Tel/Fax: (716) 844-1699	Lab Contact: Brian Fischer	Carrier:	____ of ____ COCs
2558 Hamburg Turnpike Suite 300	Analysis Turnaround Time			Sampler:
Lackawanna, NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(716) 856-0599 Phone	TAT if different from Below ____			Walk-in Client:
(716) 856-0583 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 3077 Union Rd and Associated Parcels	☒ 1 week Standard			Job / SDG No.: T0105-017-010
Site: 3077 Union Rd., Orchard Park, NY 14127	☐ 2 days			
P O # T0105-017-010	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCL VOC's	TCL SVOC's	TAL Metals	PCB's	Pesticides	Herbicides	1,4 Dioxane	PFAS	Sample Specific Notes:
TP-6 3-4Ft	9/13/21	12:00	G	Soil				X	X	X	X	X	X	X	X	enclos
TP-22 0-2Ft		11:30						X	X	X	X	X	X	X	X	enclos
TP-23 1-3Ft		10:00						X	X	X	X	X	X	X	X	enclos
TP-30 4-6 Ft		11:00						X	X	X	X	X	X	X	X	enclos
TP-34 0-2 Ft		13:00						X	X	X	X	X	X	X	X	enclos

480-189504 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
Cat B, NYS Dec Equis

2.9 ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by:	Company: 9/13/21 15:00	Date/Time:	Received by: Ian Johnson	Company: ETC	Date/Time: 9/13/21 1515
Relinquished by:	Company:	Date/Time:	Received by:	Company: TMB	Date/Time: 9-14-21 800
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

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

Chain of Custody Record

480-189504 Chain of Custody

Eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler: Fischer, Brian J		State of Origin: New York	Page: Page 1 of 1
Client Contact: Shipping/Receiving	Phone:		Accreditations Required (See note): NELAP - New York	Job #: 480-189504-1
Company: TestAmerica Laboratories, Inc.				
Address: 530 Community Drive Suite 11,	Due Date Requested: 9/20/2021		Analysis Requested	Preservation Codes: A - HCL M - Hexane; B - NaOH N - None; C - Zn Acetate O - AsNaO2; D - Nitric Acid P - Na2O4S; E - NaHSO4 Q - Na2SO3; F - MeOH R - Na2S2O3; G - Amchlor S - H2SO4; H - Ascorbic Acid T - TSP Dodecahydrate; I - Ice U - Acetone; J - DI Water V - MCAA; K - EDTA W - pH 4-5; L - EDA Z - other (specify)
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: 3077 Union Rd Site - Orchard Park, NY	Project #: 48024263			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TP-6 3-4 FT (480-189504-1)	9/13/21	12:00 Eastern		Solid			X	1	
TP-22 0-2 FT (480-189504-2)	9/13/21	11:30 Eastern		Solid			X	1	
TP-23 1-3 FT (480-189504-3)	9/13/21	10:00 Eastern		Solid			X	1	
TP-30 4-6 FT (480-189504-4)	9/13/21	11:00 Eastern		Solid			X	2	
TP-34 0-2 FT (480-189504-5)	9/13/21	13:00 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Christian Ackold	Date/Time: 9/15/21 1700	Company: TA	Received by: Sarah Curtis
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Date/Time: 09/16/21 1000	Company: ETA-BUF		
Date/Time:	Company:		
Date/Time:	Company:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 06/08/2021

Do Not Lift Using This Tag

eurofins | Environment Testing TestAmerica

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 15SEP21
ACTWGT: 43.35 LB
CAD: 846654/CAFE3506
DIMS: 26x15x14 IN

BILL SENDER

TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA BURLINGTON

FedEx Express

J211020121101uv

TRK# 0201 1888 3865 1688

THU - 16 SEP 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-189504-1

Login Number: 189504
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

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

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-189504-1

Login Number: 189504
List Number: 2
Creator: Sofio, Michael G

List Source: Eurofins TestAmerica, Burlington
List Creation: 09/16/21 03:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1512636
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-130449-1
Client Project/Site: Benchmark - 3077-3097 Union Rd

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Joseph V. Giacomazza

Authorized for release by:
1/29/2018 10:15:46 AM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-130449-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-130449-1

Comments
No additional comments.

Receipt
The samples were received on 1/23/2018 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-397230 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: TWW-1 (480-130449-8).

Method(s) 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-397230. The following sample was affected : TWW-1 (480-130449-8).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-7 (4-6) (480-130449-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: TWW-1 (480-130449-8).
The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP matrix: SB-7 (4-6) (480-130449-4) and (LB 480-397113/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-397178 and analytical batch 480-397378 recovered outside control limits for the following analyte: 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-3 (6-8) (480-130449-2), SB-7 (4-6) (480-130449-4), SB-7 (6-8) (480-130449-5) and SB-11 (2-4) (480-130449-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-7 (4-6) (480-130449-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples as analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-3 (6-8) (480-130449-2), SB-7 (4-6) (480-130449-4), SB-7 (6-8) (480-130449-5) and SB-11 (2-4) (480-130449-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: SB-1 (10-12) (480-130449-1), SB-8 (4-6) (480-130449-6), (480-130382-A-3-C MS) and (480-130382-A-3-D MSD). Elevated reporting limits (RLs) are provided.

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

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

Job ID: 480-130449-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Organic Prep

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-1 (10-12) — Lab Sample ID: 480-130449-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	100	J B	130	25	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1000		130	17	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SB-3 ~~(6-8)~~ — Lab Sample ID: 480-130449-2

Note: Actual Sample was taken from 4'-4.5'

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170	J	450	120	ug/Kg	4	☼	8260C	Total/NA
Methylene Chloride	330	J B	450	89	ug/Kg	4	☼	8260C	Total/NA
Tetrachloroethene	44000		450	61	ug/Kg	4	☼	8260C	Total/NA
Trichloroethene	1500		450	130	ug/Kg	4	☼	8260C	Total/NA

Client Sample ID: SB-4 (2-4) — Lab Sample ID: 480-130449-3

No Detections.

Client Sample ID: SB-7 (4-6) — Lab Sample ID: 480-130449-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2000	J B	2500	490	ug/Kg	20	☼	8260C	Total/NA
Tetrachloroethene	120000		2500	330	ug/Kg	20	☼	8260C	Total/NA
Trichloroethene	0.0081	J	0.010	0.0046	mg/L	10		8260C	TCLP
Tetrachloroethene - DL	2.6	B	0.050	0.018	mg/L	50		8260C	TCLP

Client Sample ID: SB-7 (6-8) — Lab Sample ID: 480-130449-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	280		220	61	ug/Kg	2	☼	8260C	Total/NA
Methylene Chloride	190	J B	220	44	ug/Kg	2	☼	8260C	Total/NA
Tetrachloroethene	19000		220	30	ug/Kg	2	☼	8260C	Total/NA
Trichloroethene	940		220	62	ug/Kg	2	☼	8260C	Total/NA

Client Sample ID: SB-8 (4-6) — Lab Sample ID: 480-130449-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	260		130	35	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	110	J B	130	25	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1100		130	17	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	610		130	36	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SB-11 (2-4) — Lab Sample ID: 480-130449-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	200	J B	240	47	ug/Kg	2	☼	8260C	Total/NA
Tetrachloroethene	13000		240	32	ug/Kg	2	☼	8260C	Total/NA
Trichloroethene	180	J	240	66	ug/Kg	2	☼	8260C	Total/NA

Client Sample ID: TWW-1 — Lab Sample ID: 480-130449-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.46	J	1.0	0.19	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: TWW-1 (Continued)

Lab Sample ID: 480-130449-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.18	J	1.0	0.18	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-1 (10-12)
Date Collected: 01/22/18 08:45
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-1
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		130	35	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,1,2,2-Tetrachloroethane	ND		130	20	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		130	63	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,1,2-Trichloroethane	ND		130	26	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,1-Dichloroethane	ND		130	39	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,1-Dichloroethene	ND		130	43	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,2,4-Trichlorobenzene	ND		130	48	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,2,4-Trimethylbenzene	ND		130	35	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,2-Dibromo-3-Chloropropane	ND	*	130	63	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,2-Dichlorobenzene	ND		130	32	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,2-Dichloroethane	ND		130	51	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,2-Dichloropropane	ND		130	20	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,3,5-Trimethylbenzene	ND		130	38	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,3-Dichlorobenzene	ND		130	34	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,4-Dichlorobenzene	ND		130	18	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
2-Butanone (MEK)	ND		630	370	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
2-Hexanone	ND		630	260	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
4-Isopropyltoluene	ND		130	42	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
4-Methyl-2-pentanone (MIBK)	ND		630	40	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Acetone	ND		630	520	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Benzene	ND		130	24	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Bromoform	ND		130	63	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Bromomethane	ND		130	28	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Carbon disulfide	ND		130	57	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Carbon tetrachloride	ND		130	32	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Chlorobenzene	ND		130	17	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Dibromochloromethane	ND		130	61	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Chloroethane	ND		130	26	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Chloroform	ND		130	86	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Chloromethane	ND		130	30	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
cis-1,2-Dichloroethene	ND		130	35	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Cyclohexane	ND		130	28	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Bromodichloromethane	ND		130	25	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Dichlorodifluoromethane	ND		130	55	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Ethylbenzene	ND		130	37	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
1,2-Dibromoethane	ND		130	22	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Isopropylbenzene	ND		130	19	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Methyl acetate	ND		630	60	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Methyl tert-butyl ether	ND		130	47	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Methylcyclohexane	ND		130	59	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Methylene Chloride	**100**	**J B**	130	25	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
m,p-Xylene	ND		250	70	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
n-Butylbenzene	ND		130	37	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
N-Propylbenzene	ND		130	33	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
o-Xylene	ND		130	16	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
sec-Butylbenzene	ND		130	46	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Tetrachloroethene	**1000**		130	17	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Toluene	ND		130	34	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
trans-1,2-Dichloroethene	ND		130	30	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-1 (10-12)
Date Collected: 01/22/18 08:45
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-1
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		130	12	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Trichloroethene	ND		130	35	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Trichlorofluoromethane	ND		130	59	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Vinyl chloride	ND		130	42	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Xylenes, Total	ND		250	70	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
cis-1,3-Dichloropropene	ND		130	30	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
Styrene	ND		130	30	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1
tert-Butylbenzene	ND		130	35	ug/Kg	☼	01/24/18 15:46	01/26/18 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*53 - 146*	*01/24/18 15:46*	*01/26/18 00:11*	*1*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*01/24/18 15:46*	*01/26/18 00:11*	*1*
Toluene-d8 (Surr)	*102*		*50 - 149*	*01/24/18 15:46*	*01/26/18 00:11*	*1*
Dibromofluoromethane (Surr)	*95*		*60 - 140*	*01/24/18 15:46*	*01/26/18 00:11*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-3 (~~6-8~~) Note: Actual Sample was taken from 4'-4.5'
Date Collected: 01/22/18 09:30
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-2
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		450	120	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,1,2,2-Tetrachloroethane	ND		450	73	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		450	230	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,1,2-Trichloroethane	ND		450	95	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,1-Dichloroethane	ND		450	140	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,1-Dichloroethene	ND		450	160	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,2,4-Trichlorobenzene	ND		450	170	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,2,4-Trimethylbenzene	ND		450	130	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,2-Dibromo-3-Chloropropane	ND	*	450	230	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,2-Dichlorobenzene	ND		450	110	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,2-Dichloroethane	ND		450	180	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,2-Dichloropropane	ND		450	73	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,3,5-Trimethylbenzene	ND		450	140	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,3-Dichlorobenzene	ND		450	120	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,4-Dichlorobenzene	ND		450	63	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
2-Butanone (MEK)	ND		2300	1300	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
2-Hexanone	ND		2300	920	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
4-Isopropyltoluene	ND		450	150	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
4-Methyl-2-pentanone (MIBK)	ND		2300	140	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Acetone	ND		2300	1900	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Benzene	ND		450	86	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Bromoform	ND		450	230	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Bromomethane	ND		450	99	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Carbon disulfide	ND		450	200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Carbon tetrachloride	ND		450	110	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Chlorobenzene	ND		450	59	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Dibromochloromethane	ND		450	220	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Chloroethane	ND		450	94	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Chloroform	ND		450	310	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Chloromethane	ND		450	110	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
cis-1,2-Dichloroethene	**170**	**J**	450	120	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Cyclohexane	ND		450	100	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Bromodichloromethane	ND		450	90	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Dichlorodifluoromethane	ND		450	200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Ethylbenzene	ND		450	130	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
1,2-Dibromoethane	ND		450	79	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Isopropylbenzene	ND		450	68	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Methyl acetate	ND		2300	210	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Methyl tert-butyl ether	ND		450	170	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Methylcyclohexane	ND		450	210	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Methylene Chloride	**330**	**J B**	450	89	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
m,p-Xylene	ND		900	250	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
n-Butylbenzene	ND		450	130	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
N-Propylbenzene	ND		450	120	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
o-Xylene	ND		450	59	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
sec-Butylbenzene	ND		450	170	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Tetrachloroethene	**44000**		450	61	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Toluene	ND		450	120	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
trans-1,2-Dichloroethene	ND		450	110	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-3 ~~(6-8)~~
Date Collected: 01/22/18 09:30
Date Received: 01/23/18 15:15

Note: Actual Sample was taken from 4'-4.5'

Lab Sample ID: 480-130449-2
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		450	44	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Trichloroethene	**1500**		450	130	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Trichlorofluoromethane	ND		450	210	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Vinyl chloride	ND		450	150	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Xylenes, Total	ND		900	250	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
cis-1,3-Dichloropropene	ND		450	110	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
Styrene	ND		450	110	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4
tert-Butylbenzene	ND		450	130	ug/Kg	☼	01/24/18 15:46	01/26/18 00:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*53 - 146*	*01/24/18 15:46*	*01/26/18 00:34*	*4*
4-Bromofluorobenzene (Surr)	*103*		*49 - 148*	*01/24/18 15:46*	*01/26/18 00:34*	*4*
Toluene-d8 (Surr)	*101*		*50 - 149*	*01/24/18 15:46*	*01/26/18 00:34*	*4*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*01/24/18 15:46*	*01/26/18 00:34*	*4*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-4 (2-4)
Date Collected: 01/22/18 10:00
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-3
Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	27	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Acenaphthylene	ND		190	24	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Anthracene	ND		190	46	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Benzo[a]pyrene	ND		190	27	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Chrysene	ND		190	42	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Fluoranthene	ND		190	20	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Fluorene	ND		190	22	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Naphthalene	ND		190	24	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Pyrene	ND		190	22	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1
Phenanthrene	ND		190	27	ug/Kg	☼	01/24/18 16:05	01/26/18 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*54 - 120*	*01/24/18 16:05*	*01/26/18 00:10*	*1*
2-Fluorobiphenyl	*83*		*60 - 120*	*01/24/18 16:05*	*01/26/18 00:10*	*1*
2-Fluorophenol (Surr)	*75*		*52 - 120*	*01/24/18 16:05*	*01/26/18 00:10*	*1*
Phenol-d5 (Surr)	*74*		*54 - 120*	*01/24/18 16:05*	*01/26/18 00:10*	*1*
p-Terphenyl-d14 (Surr)	*93*		*65 - 121*	*01/24/18 16:05*	*01/26/18 00:10*	*1*
Nitrobenzene-d5 (Surr)	*75*		*53 - 120*	*01/24/18 16:05*	*01/26/18 00:10*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-7 (4-6)
Date Collected: 01/22/18 11:15
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-4
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2500	690	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,1,2,2-Tetrachloroethane	ND		2500	400	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	1200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,1,2-Trichloroethane	ND		2500	520	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,1-Dichloroethane	ND		2500	770	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,1-Dichloroethene	ND		2500	860	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,2,4-Trichlorobenzene	ND		2500	940	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,2,4-Trimethylbenzene	ND		2500	690	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,2-Dibromo-3-Chloropropane	ND	*	2500	1200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,2-Dichlorobenzene	ND		2500	630	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,2-Dichloroethane	ND		2500	1000	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,2-Dichloropropane	ND		2500	400	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,3,5-Trimethylbenzene	ND		2500	750	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,3-Dichlorobenzene	ND		2500	660	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,4-Dichlorobenzene	ND		2500	350	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
2-Butanone (MEK)	ND		12000	7400	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
2-Hexanone	ND		12000	5100	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
4-Isopropyltoluene	ND		2500	840	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
4-Methyl-2-pentanone (MIBK)	ND		12000	790	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Acetone	ND		12000	10000	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Benzene	ND		2500	470	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Bromoform	ND		2500	1200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Bromomethane	ND		2500	550	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Carbon disulfide	ND		2500	1100	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Carbon tetrachloride	ND		2500	630	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Chlorobenzene	ND		2500	330	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Dibromochloromethane	ND		2500	1200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Chloroethane	ND		2500	520	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Chloroform	ND		2500	1700	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Chloromethane	ND		2500	590	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
cis-1,2-Dichloroethene	ND		2500	680	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Cyclohexane	ND		2500	550	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Bromodichloromethane	ND		2500	500	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Dichlorodifluoromethane	ND		2500	1100	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Ethylbenzene	ND		2500	720	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
1,2-Dibromoethane	ND		2500	430	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Isopropylbenzene	ND		2500	370	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Methyl acetate	ND		12000	1200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Methyl tert-butyl ether	ND		2500	940	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Methylcyclohexane	ND		2500	1200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Methylene Chloride	**2000**	**J B**	2500	490	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
m,p-Xylene	ND		5000	1400	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
n-Butylbenzene	ND		2500	720	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
N-Propylbenzene	ND		2500	650	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
o-Xylene	ND		2500	320	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
sec-Butylbenzene	ND		2500	910	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Tetrachloroethene	**120000**		2500	330	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Toluene	ND		2500	660	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
trans-1,2-Dichloroethene	ND		2500	590	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20

Client Sample ID: SB-7 (4-6)
Date Collected: 01/22/18 11:15
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-4
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2500	240	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Trichloroethene	ND		2500	690	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Trichlorofluoromethane	ND		2500	1200	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Vinyl chloride	ND		2500	830	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Xylenes, Total	ND		5000	1400	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
cis-1,3-Dichloropropene	ND		2500	590	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
Styrene	ND		2500	600	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20
tert-Butylbenzene	ND		2500	690	ug/Kg	☼	01/24/18 15:46	01/26/18 00:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*53 - 146*	*01/24/18 15:46*	*01/26/18 00:57*	*20*
4-Bromofluorobenzene (Surr)	*102*		*49 - 148*	*01/24/18 15:46*	*01/26/18 00:57*	*20*
Toluene-d8 (Surr)	*101*		*50 - 149*	*01/24/18 15:46*	*01/26/18 00:57*	*20*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*01/24/18 15:46*	*01/26/18 00:57*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/25/18 13:21	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/25/18 13:21	10
Benzene	ND		0.010	0.0041	mg/L			01/25/18 13:21	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/25/18 13:21	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/25/18 13:21	10
Chloroform	ND		0.010	0.0034	mg/L			01/25/18 13:21	10
Trichloroethene	**0.0081**	**J**	0.010	0.0046	mg/L			01/25/18 13:21	10
Vinyl chloride	ND		0.010	0.0090	mg/L			01/25/18 13:21	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/25/18 13:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*01/25/18 13:21*	*10*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*01/25/18 13:21*	*10*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/25/18 13:21*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*01/25/18 13:21*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**2.6**	**B**	0.050	0.018	mg/L			01/26/18 13:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*01/26/18 13:34*	*50*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*01/26/18 13:34*	*50*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/26/18 13:34*	*50*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*01/26/18 13:34*	*50*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-7 (6-8)
Date Collected: 01/22/18 11:15
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-5
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		220	61	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,1,2,2-Tetrachloroethane	ND		220	36	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		220	110	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,1,2-Trichloroethane	ND		220	46	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,1-Dichloroethane	ND		220	68	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,1-Dichloroethene	ND		220	77	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,2,4-Trichlorobenzene	ND		220	84	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,2,4-Trimethylbenzene	ND		220	62	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,2-Dibromo-3-Chloropropane	ND	*	220	110	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,2-Dichlorobenzene	ND		220	56	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,2-Dichloroethane	ND		220	91	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,2-Dichloropropane	ND		220	36	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,3,5-Trimethylbenzene	ND		220	67	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,3-Dichlorobenzene	ND		220	59	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,4-Dichlorobenzene	ND		220	31	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
2-Butanone (MEK)	ND		1100	660	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
2-Hexanone	ND		1100	450	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
4-Isopropyltoluene	ND		220	75	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
4-Methyl-2-pentanone (MIBK)	ND		1100	71	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Acetone	ND		1100	910	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Benzene	ND		220	42	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Bromoform	ND		220	110	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Bromomethane	ND		220	49	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Carbon disulfide	ND		220	100	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Carbon tetrachloride	ND		220	56	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Chlorobenzene	ND		220	29	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Dibromochloromethane	ND		220	110	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Chloroethane	ND		220	46	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Chloroform	ND		220	150	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Chloromethane	ND		220	53	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
cis-1,2-Dichloroethene	**280**		220	61	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Cyclohexane	ND		220	49	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Bromodichloromethane	ND		220	44	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Dichlorodifluoromethane	ND		220	97	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Ethylbenzene	ND		220	64	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
1,2-Dibromoethane	ND		220	39	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Isopropylbenzene	ND		220	33	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Methyl acetate	ND		1100	110	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Methyl tert-butyl ether	ND		220	84	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Methylcyclohexane	ND		220	100	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Methylene Chloride	**190**	**J B**	220	44	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
m,p-Xylene	ND		440	120	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
n-Butylbenzene	ND		220	65	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
N-Propylbenzene	ND		220	58	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
o-Xylene	ND		220	29	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
sec-Butylbenzene	ND		220	81	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Tetrachloroethene	**19000**		220	30	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Toluene	ND		220	59	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
trans-1,2-Dichloroethene	ND		220	52	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-7 (6-8)
Date Collected: 01/22/18 11:15
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-5
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		220	22	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Trichloroethene	**940**		220	62	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Trichlorofluoromethane	ND		220	100	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Vinyl chloride	ND		220	74	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Xylenes, Total	ND		440	120	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
cis-1,3-Dichloropropene	ND		220	53	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
Styrene	ND		220	53	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2
tert-Butylbenzene	ND		220	62	ug/Kg	☼	01/24/18 15:46	01/26/18 01:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*53 - 146*	*01/24/18 15:46*	*01/26/18 01:20*	*2*
4-Bromofluorobenzene (Surr)	*106*		*49 - 148*	*01/24/18 15:46*	*01/26/18 01:20*	*2*
Toluene-d8 (Surr)	*104*		*50 - 149*	*01/24/18 15:46*	*01/26/18 01:20*	*2*
Dibromofluoromethane (Surr)	*97*		*60 - 140*	*01/24/18 15:46*	*01/26/18 01:20*	*2*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-8 (4-6)
Date Collected: 01/22/18 11:30
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-6
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		130	36	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,1,2,2-Tetrachloroethane	ND		130	21	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		130	64	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,1,2-Trichloroethane	ND		130	27	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,1-Dichloroethane	ND		130	40	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,1-Dichloroethene	ND		130	44	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,2,4-Trichlorobenzene	ND		130	49	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,2,4-Trimethylbenzene	ND		130	36	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,2-Dibromo-3-Chloropropane	ND	*	130	64	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,2-Dichlorobenzene	ND		130	33	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,2-Dichloroethane	ND		130	53	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,2-Dichloropropane	ND		130	21	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,3,5-Trimethylbenzene	ND		130	39	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,3-Dichlorobenzene	ND		130	34	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,4-Dichlorobenzene	ND		130	18	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
2-Butanone (MEK)	ND		640	380	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
2-Hexanone	ND		640	260	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
4-Isopropyltoluene	ND		130	43	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
4-Methyl-2-pentanone (MIBK)	ND		640	41	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Acetone	ND		640	530	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Benzene	ND		130	24	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Bromoform	ND		130	64	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Bromomethane	ND		130	28	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Carbon disulfide	ND		130	59	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Carbon tetrachloride	ND		130	33	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Chlorobenzene	ND		130	17	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Dibromochloromethane	ND		130	62	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Chloroethane	ND		130	27	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Chloroform	ND		130	88	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Chloromethane	ND		130	31	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
cis-1,2-Dichloroethene	**260**		130	35	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Cyclohexane	ND		130	29	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Bromodichloromethane	ND		130	26	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Dichlorodifluoromethane	ND		130	56	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Ethylbenzene	ND		130	37	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
1,2-Dibromoethane	ND		130	23	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Isopropylbenzene	ND		130	19	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Methyl acetate	ND		640	61	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Methyl tert-butyl ether	ND		130	49	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Methylcyclohexane	ND		130	60	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Methylene Chloride	**110**	**J B**	130	25	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
m,p-Xylene	ND		260	71	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
n-Butylbenzene	ND		130	38	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
N-Propylbenzene	ND		130	34	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
o-Xylene	ND		130	17	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
sec-Butylbenzene	ND		130	47	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Tetrachloroethene	**1100**		130	17	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Toluene	ND		130	34	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
trans-1,2-Dichloroethene	ND		130	30	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-8 (4-6)
Date Collected: 01/22/18 11:30
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-6
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		130	13	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Trichloroethene	**610**		130	36	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Trichlorofluoromethane	ND		130	60	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Vinyl chloride	ND		130	43	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Xylenes, Total	ND		260	71	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
cis-1,3-Dichloropropene	ND		130	31	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
Styrene	ND		130	31	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1
tert-Butylbenzene	ND		130	36	ug/Kg	☼	01/24/18 15:46	01/26/18 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*53 - 146*	*01/24/18 15:46*	*01/26/18 01:43*	*1*
4-Bromofluorobenzene (Surr)	*107*		*49 - 148*	*01/24/18 15:46*	*01/26/18 01:43*	*1*
Toluene-d8 (Surr)	*105*		*50 - 149*	*01/24/18 15:46*	*01/26/18 01:43*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 140*	*01/24/18 15:46*	*01/26/18 01:43*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-11 (2-4)
Date Collected: 01/22/18 13:15
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-7
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		240	66	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,1,2,2-Tetrachloroethane	ND		240	38	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		240	120	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,1,2-Trichloroethane	ND		240	50	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,1-Dichloroethane	ND		240	73	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,1-Dichloroethene	ND		240	82	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,2,4-Trichlorobenzene	ND		240	90	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,2,4-Trimethylbenzene	ND		240	66	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,2-Dibromo-3-Chloropropane	ND	*	240	120	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,2-Dichlorobenzene	ND		240	60	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,2-Dichloroethane	ND		240	97	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,2-Dichloropropane	ND		240	38	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,3,5-Trimethylbenzene	ND		240	72	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,3-Dichlorobenzene	ND		240	63	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,4-Dichlorobenzene	ND		240	33	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
2-Butanone (MEK)	ND		1200	700	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
2-Hexanone	ND		1200	490	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
4-Isopropyltoluene	ND		240	80	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
4-Methyl-2-pentanone (MIBK)	ND		1200	76	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Acetone	ND		1200	970	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Benzene	ND		240	45	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Bromoform	ND		240	120	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Bromomethane	ND		240	52	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Carbon disulfide	ND		240	110	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Carbon tetrachloride	ND		240	60	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Chlorobenzene	ND		240	31	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Dibromochloromethane	ND		240	110	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Chloroethane	ND		240	49	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Chloroform	ND		240	160	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Chloromethane	ND		240	56	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
cis-1,2-Dichloroethene	ND		240	65	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Cyclohexane	ND		240	53	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Bromodichloromethane	ND		240	47	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Dichlorodifluoromethane	ND		240	100	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Ethylbenzene	ND		240	69	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
1,2-Dibromoethane	ND		240	41	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Isopropylbenzene	ND		240	36	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Methyl acetate	ND		1200	110	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Methyl tert-butyl ether	ND		240	90	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Methylcyclohexane	ND		240	110	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Methylene Chloride	**200**	**J B**	240	47	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
m,p-Xylene	ND		470	130	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
n-Butylbenzene	ND		240	69	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
N-Propylbenzene	ND		240	62	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
o-Xylene	ND		240	31	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
sec-Butylbenzene	ND		240	87	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Tetrachloroethene	**13000**		240	32	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Toluene	ND		240	64	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
trans-1,2-Dichloroethene	ND		240	56	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-11 (2-4)
Date Collected: 01/22/18 13:15
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-7
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		240	23	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Trichloroethene	**180**	**J**	240	66	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Trichlorofluoromethane	ND		240	110	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Vinyl chloride	ND		240	79	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Xylenes, Total	ND		470	130	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
cis-1,3-Dichloropropene	ND		240	57	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
Styrene	ND		240	57	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2
tert-Butylbenzene	ND		240	66	ug/Kg	☼	01/24/18 15:46	01/26/18 02:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*53 - 146*	*01/24/18 15:46*	*01/26/18 02:07*	*2*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*01/24/18 15:46*	*01/26/18 02:07*	*2*
Toluene-d8 (Surr)	*101*		*50 - 149*	*01/24/18 15:46*	*01/26/18 02:07*	*2*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*01/24/18 15:46*	*01/26/18 02:07*	*2*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: TWW-1
Date Collected: 01/22/18 16:00
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/25/18 11:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/25/18 11:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/25/18 11:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/25/18 11:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/25/18 11:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/25/18 11:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/25/18 11:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/25/18 11:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/25/18 11:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/25/18 11:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/25/18 11:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/25/18 11:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/25/18 11:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/25/18 11:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/25/18 11:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/25/18 11:40	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			01/25/18 11:40	1
2-Hexanone	ND		5.0	1.2	ug/L			01/25/18 11:40	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/25/18 11:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/25/18 11:40	1
Acetone	**5.0**	**J**	10	3.0	ug/L			01/25/18 11:40	1
Benzene	ND		1.0	0.41	ug/L			01/25/18 11:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/25/18 11:40	1
Bromoform	ND		1.0	0.26	ug/L			01/25/18 11:40	1
Bromomethane	ND		1.0	0.69	ug/L			01/25/18 11:40	1
Carbon disulfide	**0.46**	**J**	1.0	0.19	ug/L			01/25/18 11:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/25/18 11:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/25/18 11:40	1
Chloroethane	ND		1.0	0.32	ug/L			01/25/18 11:40	1
Chloroform	ND		1.0	0.34	ug/L			01/25/18 11:40	1
Chloromethane	ND		1.0	0.35	ug/L			01/25/18 11:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/25/18 11:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/25/18 11:40	1
Cyclohexane	**0.18**	**J**	1.0	0.18	ug/L			01/25/18 11:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/25/18 11:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/25/18 11:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/25/18 11:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/25/18 11:40	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/25/18 11:40	1
Methyl acetate	ND		2.5	1.3	ug/L			01/25/18 11:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/25/18 11:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/25/18 11:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/25/18 11:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/25/18 11:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/25/18 11:40	1
o-Xylene	ND		1.0	0.76	ug/L			01/25/18 11:40	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/25/18 11:40	1
Styrene	ND		1.0	0.73	ug/L			01/25/18 11:40	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/25/18 11:40	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: TWW-1
Date Collected: 01/22/18 16:00
Date Received: 01/23/18 15:15

Lab Sample ID: 480-130449-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			01/25/18 11:40	1
Toluene	ND		1.0	0.51	ug/L			01/25/18 11:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/25/18 11:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/25/18 11:40	1
Trichloroethene	ND		1.0	0.46	ug/L			01/25/18 11:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/25/18 11:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/25/18 11:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/25/18 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*01/25/18 11:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*01/25/18 11:40*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*01/25/18 11:40*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-130449-1	SB-1 (10-12)	92	105	102	95
480-130449-2	SB-3 (6-8)	98	103	101	98
480-130449-4	SB-7 (4-6)	96	102	101	98
480-130449-5	SB-7 (6-8)	101	106	104	97
480-130449-6	SB-8 (4-6)	95	107	105	94
480-130449-7	SB-11 (2-4)	97	105	101	93
LCS 480-397178/1-A	Lab Control Sample	96	107	103	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-397236/6	Lab Control Sample	96	111	103	107
LCS 480-397428/5	Lab Control Sample	100	109	103	104
MB 480-397178/2-A	Method Blank	96	106	102	96
MB 480-397236/8	Method Blank	94	105	102	102
MB 480-397428/8	Method Blank	96	107	104	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-130449-4	SB-7 (4-6)	100	104	104	104
480-130449-4 - DL	SB-7 (4-6)	98	106	103	99
LB 480-397113/1-A	Method Blank	103	103	104	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)								
		DCA	BFB	TOL						
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)						
480-130449-8	TWW-1	99	101	97						
LCS 480-397230/5	Lab Control Sample	95	100	95						
MB 480-397230/8	Method Blank	100	102	97						

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	PHL	TPHd14	NBZ		
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(54-120)	(65-121)	(53-120)		
480-130449-3	SB-4 (2-4)	89	83	75	74	93	75		
480-130449-3 MS	SB-4 (2-4)	97	89	75	77	93	82		
480-130449-3 MSD	SB-4 (2-4)	90	83	77	77	95	80		
LCS 480-397187/2-A	Lab Control Sample	93	85	75	74	100	78		
MB 480-397187/1-A	Method Blank	77	88	78	77	106	77		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
NBZ = Nitrobenzene-d5 (Surr)

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

Lab Sample ID: MB 480-397178/2-A
Matrix: Solid
Analysis Batch: 397378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,1,2,2-Tetrachloroethane	ND		100	21	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,1,2-Trichloroethane	ND		100	23	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,1-Dichloroethane	ND		100	38	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,2,4-Trichlorobenzene	ND		100	41	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,2,4-Trimethylbenzene	ND		100	75	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,2-Dichlorobenzene	ND		100	79	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,2-Dichloroethane	ND		0.10	0.021	mg/L		01/24/18 15:04	01/25/18 21:29	1
1,1-Dichloroethene	ND		0.10	0.029	mg/L		01/24/18 15:04	01/25/18 21:29	1
1,2-Dichloropropane	ND		100	72	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,3,5-Trimethylbenzene	ND		100	77	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,3-Dichlorobenzene	ND		100	78	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,4-Dichlorobenzene	ND		100	84	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
2-Butanone (MEK)	ND		0.50	0.13	mg/L		01/24/18 15:04	01/25/18 21:29	1
2-Hexanone	ND		500	120	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
4-Isopropyltoluene	ND		100	31	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Acetone	ND		500	300	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Benzene	ND		0.10	0.041	mg/L		01/24/18 15:04	01/25/18 21:29	1
Bromoform	ND		100	26	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Bromomethane	ND		100	69	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Carbon disulfide	ND		100	19	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Carbon tetrachloride	ND		0.10	0.027	mg/L		01/24/18 15:04	01/25/18 21:29	1
Chlorobenzene	ND		0.10	0.075	mg/L		01/24/18 15:04	01/25/18 21:29	1
Chloroethane	ND		100	32	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Chloroform	ND		0.10	0.034	mg/L		01/24/18 15:04	01/25/18 21:29	1
Chloromethane	ND		100	34	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
cis-1,2-Dichloroethene	ND		100	81	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Bromodichloromethane	ND		100	38	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Cyclohexane	ND		100	18	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Dibromochloromethane	ND		100	32	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
1,2-Dibromoethane	ND		100	73	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Dichlorodifluoromethane	ND		100	68	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Ethylbenzene	ND		100	74	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Isopropylbenzene	ND		100	79	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Methyl acetate	ND		100	50	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Methyl tert-butyl ether	ND		100	16	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
m,p-Xylene	ND		200	66	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Methylcyclohexane	ND		100	16	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Methylene Chloride	72.4	J	100	44	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
n-Butylbenzene	ND		100	64	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
N-Propylbenzene	ND		100	69	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
o-Xylene	ND		100	76	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
sec-Butylbenzene	ND		100	75	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Tetrachloroethene	ND		0.10	0.036	mg/L		01/24/18 15:04	01/25/18 21:29	1
Toluene	ND		100	51	ug/Kg		01/24/18 15:04	01/25/18 21:29	1

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

Lab Sample ID: MB 480-397178/2-A
Matrix: Solid
Analysis Batch: 397378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	90	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
trans-1,3-Dichloropropene	ND		100	37	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Trichloroethene	ND		0.10	0.046	mg/L		01/24/18 15:04	01/25/18 21:29	1
Trichlorofluoromethane	ND		100	88	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
cis-1,3-Dichloropropene	ND		100	36	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Vinyl chloride	ND		0.10	0.090	mg/L		01/24/18 15:04	01/25/18 21:29	1
Styrene	ND		100	73	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
Xylenes, Total	ND		200	66	ug/Kg		01/24/18 15:04	01/25/18 21:29	1
tert-Butylbenzene	ND		100	81	ug/Kg		01/24/18 15:04	01/25/18 21:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*	*01/24/18 15:04*	*01/25/18 21:29*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*	*01/24/18 15:04*	*01/25/18 21:29*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/24/18 15:04*	*01/25/18 21:29*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*	*01/24/18 15:04*	*01/25/18 21:29*	*1*

Lab Sample ID: LCS 480-397178/1-A
Matrix: Solid
Analysis Batch: 397378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2380		ug/Kg		95	68 - 130
1,1,2,2-Tetrachloroethane	2500	2000		ug/Kg		80	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2800		ug/Kg		112	10 - 179
1,1,2-Trichloroethane	2500	2460		ug/Kg		98	80 - 120
1,1-Dichloroethane	2500	2630		ug/Kg		105	78 - 121
1,2,4-Trichlorobenzene	2500	2470		ug/Kg		99	70 - 140
1,2,4-Trimethylbenzene	2500	2290		ug/Kg		92	77 - 127
1,2-Dibromo-3-Chloropropane	2500	1360	*	ug/Kg		54	56 - 122
1,2-Dichlorobenzene	2500	2480		ug/Kg		99	78 - 125
1,2-Dichloroethane	2500	2460		ug/Kg		98	74 - 127
1,1-Dichloroethene	2500	2710		ug/Kg		108	48 - 133
1,2-Dichloropropane	2500	2650		ug/Kg		106	80 - 120
1,3,5-Trimethylbenzene	2500	2310		ug/Kg		92	79 - 120
1,3-Dichlorobenzene	2500	2450		ug/Kg		98	80 - 120
1,4-Dichlorobenzene	2500	2440		ug/Kg		98	80 - 120
2-Butanone (MEK)	12500	11400		ug/Kg		91	54 - 149
2-Hexanone	12500	10300		ug/Kg		82	59 - 127
4-Isopropyltoluene	2500	2400		ug/Kg		96	80 - 120
4-Methyl-2-pentanone (MIBK)	12500	10600		ug/Kg		85	74 - 120
Acetone	12500	10500		ug/Kg		84	47 - 141
Benzene	2500	2700		ug/Kg		108	77 - 125
Bromoform	2500	1830		ug/Kg		73	48 - 125
Bromomethane	2500	2540		ug/Kg		102	39 - 149
Carbon disulfide	2500	2330		ug/Kg		93	40 - 136
Carbon tetrachloride	2500	2180		ug/Kg		87	54 - 135
Chlorobenzene	2500	2660		ug/Kg		106	76 - 126

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

Lab Sample ID: LCS 480-397178/1-A
Matrix: Solid
Analysis Batch: 397378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2500	3020		ug/Kg		121	23 - 150
Chloroform	2500	2630		ug/Kg		105	78 - 120
Chloromethane	2500	2290		ug/Kg		92	61 - 124
cis-1,2-Dichloroethene	2500	2710		ug/Kg		108	79 - 124
Bromodichloromethane	2500	2310		ug/Kg		93	71 - 121
Cyclohexane	2500	2540		ug/Kg		102	49 - 129
Dibromochloromethane	2500	2030		ug/Kg		81	64 - 120
1,2-Dibromoethane	2500	2420		ug/Kg		97	80 - 120
Dichlorodifluoromethane	2500	2300		ug/Kg		92	10 - 150
Ethylbenzene	2500	2550		ug/Kg		102	78 - 124
Isopropylbenzene	2500	2330		ug/Kg		93	76 - 120
Methyl acetate	5000	4310		ug/Kg		86	71 - 123
Methyl tert-butyl ether	2500	2460		ug/Kg		98	67 - 137
m,p-Xylene	2500	2570		ug/Kg		103	77 - 125
Methylcyclohexane	2500	2760		ug/Kg		111	50 - 130
Methylene Chloride	2500	2520		ug/Kg		101	75 - 118
Naphthalene	2500	2220		ug/Kg		89	65 - 142
n-Butylbenzene	2500	2340		ug/Kg		93	80 - 120
N-Propylbenzene	2500	2300		ug/Kg		92	76 - 120
o-Xylene	2500	2680		ug/Kg		107	80 - 124
sec-Butylbenzene	2500	2370		ug/Kg		95	79 - 120
Tetrachloroethene	2500	2830		ug/Kg		113	73 - 133
Toluene	2500	2540		ug/Kg		102	75 - 124
trans-1,2-Dichloroethene	2500	2740		ug/Kg		109	74 - 129
trans-1,3-Dichloropropene	2500	2210		ug/Kg		88	73 - 120
Trichloroethene	2500	2710		ug/Kg		108	75 - 131
Trichlorofluoromethane	2500	2960		ug/Kg		118	29 - 158
cis-1,3-Dichloropropene	2500	2500		ug/Kg		100	75 - 121
Vinyl chloride	2500	2400		ug/Kg		96	59 - 124
Styrene	2500	2560		ug/Kg		102	80 - 120
tert-Butylbenzene	2500	2410		ug/Kg		96	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*53 - 146*
4-Bromofluorobenzene (Surr)	*107*		*49 - 148*
Toluene-d8 (Surr)	*103*		*50 - 149*
Dibromofluoromethane (Surr)	*105*		*60 - 140*

Lab Sample ID: MB 480-397230/8
Matrix: Water
Analysis Batch: 397230

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/25/18 10:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/25/18 10:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/25/18 10:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/25/18 10:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/25/18 10:43	1

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

Lab Sample ID: MB 480-397230/8
Matrix: Water
Analysis Batch: 397230

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/25/18 10:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/25/18 10:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/25/18 10:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/25/18 10:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/25/18 10:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/25/18 10:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/25/18 10:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/25/18 10:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/25/18 10:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/25/18 10:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/25/18 10:43	1
2-Hexanone	ND		5.0	1.2	ug/L			01/25/18 10:43	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/25/18 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/25/18 10:43	1
Acetone	ND		10	3.0	ug/L			01/25/18 10:43	1
Benzene	ND		1.0	0.41	ug/L			01/25/18 10:43	1
Bromoform	ND		1.0	0.26	ug/L			01/25/18 10:43	1
Bromomethane	ND		1.0	0.69	ug/L			01/25/18 10:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/25/18 10:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/25/18 10:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/25/18 10:43	1
Chloroethane	ND		1.0	0.32	ug/L			01/25/18 10:43	1
Chloroform	ND		1.0	0.34	ug/L			01/25/18 10:43	1
Chloromethane	ND		1.0	0.35	ug/L			01/25/18 10:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/25/18 10:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/25/18 10:43	1
Cyclohexane	ND		1.0	0.18	ug/L			01/25/18 10:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/25/18 10:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/25/18 10:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/25/18 10:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/25/18 10:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/25/18 10:43	1
Methyl acetate	ND		2.5	1.3	ug/L			01/25/18 10:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/25/18 10:43	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/25/18 10:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/25/18 10:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/25/18 10:43	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/25/18 10:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/25/18 10:43	1
o-Xylene	ND		1.0	0.76	ug/L			01/25/18 10:43	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/25/18 10:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/25/18 10:43	1
Toluene	ND		1.0	0.51	ug/L			01/25/18 10:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/25/18 10:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/25/18 10:43	1
Trichloroethene	ND		1.0	0.46	ug/L			01/25/18 10:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/25/18 10:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/25/18 10:43	1

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

Lab Sample ID: MB 480-397230/8
Matrix: Water
Analysis Batch: 397230

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			01/25/18 10:43	1
Styrene	ND		1.0	0.73	ug/L			01/25/18 10:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/25/18 10:43	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/25/18 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*01/25/18 10:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*01/25/18 10:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*01/25/18 10:43*	*1*

Lab Sample ID: LCS 480-397230/5
Matrix: Water
Analysis Batch: 397230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.8		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.2		ug/L		113	61 - 148
1,1,2-Trichloroethane	25.0	23.1		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	25.9		ug/L		103	77 - 120
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		96	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	56 - 134
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	24.1		ug/L		96	75 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		100	66 - 127
1,2-Dichloropropane	25.0	23.8		ug/L		95	76 - 120
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	77 - 121
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	24.9		ug/L		100	80 - 120
2-Butanone (MEK)	125	233	*	ug/L		186	57 - 140
2-Hexanone	125	114		ug/L		91	65 - 127
4-Isopropyltoluene	25.0	25.4		ug/L		102	73 - 120
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		90	71 - 125
Acetone	125	145		ug/L		116	56 - 142
Benzene	25.0	25.4		ug/L		102	71 - 124
Bromoform	25.0	23.3		ug/L		93	61 - 132
Bromomethane	25.0	22.1		ug/L		89	55 - 144
Carbon disulfide	25.0	25.1		ug/L		100	59 - 134
Carbon tetrachloride	25.0	26.2		ug/L		105	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Chloroethane	25.0	21.3		ug/L		85	69 - 136
Chloroform	25.0	23.5		ug/L		94	73 - 127
Chloromethane	25.0	21.4		ug/L		86	68 - 124
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	74 - 124
Bromodichloromethane	25.0	25.2		ug/L		101	80 - 122
Cyclohexane	25.0	25.6		ug/L		102	59 - 135

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

Lab Sample ID: LCS 480-397230/5
Matrix: Water
Analysis Batch: 397230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	25.0	23.9		ug/L		95	75 - 125
1,2-Dibromoethane	25.0	23.9		ug/L		96	77 - 120
Dichlorodifluoromethane	25.0	20.5		ug/L		82	59 - 135
Ethylbenzene	25.0	24.1		ug/L		96	77 - 123
Isopropylbenzene	25.0	24.6		ug/L		99	77 - 122
Methyl acetate	50.0	48.0		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120
m,p-Xylene	25.0	23.9		ug/L		96	76 - 122
Methylcyclohexane	25.0	25.8		ug/L		103	68 - 134
Methylene Chloride	25.0	25.4		ug/L		101	75 - 124
n-Butylbenzene	25.0	24.1		ug/L		97	71 - 128
N-Propylbenzene	25.0	24.4		ug/L		98	75 - 127
o-Xylene	25.0	24.5		ug/L		98	76 - 122
sec-Butylbenzene	25.0	24.8		ug/L		99	74 - 127
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	23.1		ug/L		93	80 - 120
Trichloroethene	25.0	25.1		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	24.3		ug/L		97	62 - 150
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Vinyl chloride	25.0	22.0		ug/L		88	65 - 133
Styrene	25.0	24.2		ug/L		97	80 - 120
tert-Butylbenzene	25.0	25.2		ug/L		101	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 480-397236/8
Matrix: Solid
Analysis Batch: 397236

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			01/25/18 11:30	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			01/25/18 11:30	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			01/25/18 11:30	1
Benzene	ND		0.0010	0.00041	mg/L			01/25/18 11:30	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			01/25/18 11:30	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			01/25/18 11:30	1
Chloroform	ND		0.0010	0.00034	mg/L			01/25/18 11:30	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			01/25/18 11:30	1
Trichloroethene	ND		0.0010	0.00046	mg/L			01/25/18 11:30	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			01/25/18 11:30	1

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

Lab Sample ID: MB 480-397236/8
Matrix: Solid
Analysis Batch: 397236

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*01/25/18 11:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*01/25/18 11:30*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*01/25/18 11:30*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*01/25/18 11:30*	*1*

Lab Sample ID: LCS 480-397236/6
Matrix: Solid
Analysis Batch: 397236

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.0250	0.0256		mg/L		102	75 - 120
1,1-Dichloroethene	0.0250	0.0279		mg/L		111	66 - 127
2-Butanone (MEK)	0.125	0.130		mg/L		104	57 - 140
Benzene	0.0250	0.0274		mg/L		110	71 - 124
Carbon tetrachloride	0.0250	0.0225		mg/L		90	72 - 134
Chlorobenzene	0.0250	0.0278		mg/L		111	80 - 120
Chloroform	0.0250	0.0268		mg/L		107	73 - 127
Tetrachloroethene	0.0250	0.0296		mg/L		118	74 - 122
Trichloroethene	0.0250	0.0273		mg/L		109	74 - 123
Vinyl chloride	0.0250	0.0214		mg/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Lab Sample ID: MB 480-397428/8
Matrix: Solid
Analysis Batch: 397428

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			01/26/18 12:32	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			01/26/18 12:32	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			01/26/18 12:32	1
Benzene	ND		0.0010	0.00041	mg/L			01/26/18 12:32	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			01/26/18 12:32	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			01/26/18 12:32	1
Chloroform	ND		0.0010	0.00034	mg/L			01/26/18 12:32	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			01/26/18 12:32	1
Trichloroethene	ND		0.0010	0.00046	mg/L			01/26/18 12:32	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			01/26/18 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*01/26/18 12:32*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*01/26/18 12:32*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/26/18 12:32*	*1*

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

Lab Sample ID: MB 480-397428/8
Matrix: Solid
Analysis Batch: 397428

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*01/26/18 12:32*	*1*

Lab Sample ID: LCS 480-397428/5
Matrix: Solid
Analysis Batch: 397428

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.0250	0.0252		mg/L		101	75 - 120
1,1-Dichloroethene	0.0250	0.0268		mg/L		107	66 - 127
2-Butanone (MEK)	0.125	0.131		mg/L		104	57 - 140
Benzene	0.0250	0.0271		mg/L		108	71 - 124
Carbon tetrachloride	0.0250	0.0229		mg/L		92	72 - 134
Chlorobenzene	0.0250	0.0272		mg/L		109	80 - 120
Chloroform	0.0250	0.0259		mg/L		104	73 - 127
Tetrachloroethene	0.0250	0.0290		mg/L		116	74 - 122
Trichloroethene	0.0250	0.0266		mg/L		106	74 - 123
Vinyl chloride	0.0250	0.0252		mg/L		101	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: LB 480-397113/1-A
Matrix: Solid
Analysis Batch: 397236

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/25/18 12:35	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/25/18 12:35	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/25/18 12:35	10
Benzene	ND		0.010	0.0041	mg/L			01/25/18 12:35	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/25/18 12:35	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/25/18 12:35	10
Chloroform	ND		0.010	0.0034	mg/L			01/25/18 12:35	10
Tetrachloroethene	0.00383	J	0.010	0.0036	mg/L			01/25/18 12:35	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/25/18 12:35	10
Vinyl chloride	ND		0.010	0.0090	mg/L			01/25/18 12:35	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*01/25/18 12:35*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*01/25/18 12:35*	*10*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/25/18 12:35*	*10*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*01/25/18 12:35*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-397187/1-A
Matrix: Solid
Analysis Batch: 397295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	25	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Acenaphthylene	ND		170	22	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Anthracene	ND		170	42	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Benzo[a]anthracene	ND		170	17	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Benzo[a]pyrene	ND		170	25	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Chrysene	ND		170	38	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Fluoranthene	ND		170	18	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Fluorene	ND		170	20	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Naphthalene	ND		170	22	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Pyrene	ND		170	20	ug/Kg		01/24/18 16:05	01/25/18 22:22	1
Phenanthrene	ND		170	25	ug/Kg		01/24/18 16:05	01/25/18 22:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*54 - 120*	*01/24/18 16:05*	*01/25/18 22:22*	*1*
2-Fluorobiphenyl	*88*		*60 - 120*	*01/24/18 16:05*	*01/25/18 22:22*	*1*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*01/24/18 16:05*	*01/25/18 22:22*	*1*
Phenol-d5 (Surr)	*77*		*54 - 120*	*01/24/18 16:05*	*01/25/18 22:22*	*1*
p-Terphenyl-d14 (Surr)	*106*		*65 - 121*	*01/24/18 16:05*	*01/25/18 22:22*	*1*
Nitrobenzene-d5 (Surr)	*77*		*53 - 120*	*01/24/18 16:05*	*01/25/18 22:22*	*1*

Lab Sample ID: LCS 480-397187/2-A
Matrix: Solid
Analysis Batch: 397295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1640	1420		ug/Kg		87	62 - 120
Acenaphthylene	1640	1400		ug/Kg		85	58 - 121
Anthracene	1640	1480		ug/Kg		90	62 - 120
Benzo[a]anthracene	1640	1590		ug/Kg		97	65 - 120
Benzo[a]pyrene	1640	1420		ug/Kg		86	64 - 120
Benzo[b]fluoranthene	1640	1510		ug/Kg		92	64 - 120
Benzo[g,h,i]perylene	1640	1470		ug/Kg		90	45 - 145
Benzo[k]fluoranthene	1640	1380		ug/Kg		84	65 - 120
Chrysene	1640	1570		ug/Kg		95	64 - 120
Dibenz(a,h)anthracene	1640	1470		ug/Kg		90	54 - 132
Fluoranthene	1640	1500		ug/Kg		91	62 - 120
Fluorene	1640	1450		ug/Kg		88	63 - 120
Indeno[1,2,3-cd]pyrene	1640	1460		ug/Kg		89	56 - 134
Naphthalene	1640	1350		ug/Kg		82	55 - 120
Pyrene	1640	1600		ug/Kg		98	61 - 133
Phenanthrene	1640	1510		ug/Kg		92	60 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-397187/2-A
Matrix: Solid
Analysis Batch: 397295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397187

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*54 - 120*
2-Fluorobiphenyl	*85*		*60 - 120*
2-Fluorophenol (Surr)	*75*		*52 - 120*
Phenol-d5 (Surr)	*74*		*54 - 120*
p-Terphenyl-d14 (Surr)	*100*		*65 - 121*
Nitrobenzene-d5 (Surr)	*78*		*53 - 120*

Lab Sample ID: 480-130449-3 MS
Matrix: Solid
Analysis Batch: 397295

Client Sample ID: SB-4 (2-4)
Prep Type: Total/NA
Prep Batch: 397187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		1830	1610		ug/Kg	☼	88	60 - 120
Acenaphthylene	ND		1830	1600		ug/Kg	☼	88	58 - 121
Anthracene	ND		1830	1680		ug/Kg	☼	92	62 - 120
Benzo[a]anthracene	ND		1830	1720		ug/Kg	☼	94	65 - 120
Benzo[a]pyrene	ND		1830	1580		ug/Kg	☼	86	64 - 120
Benzo[b]fluoranthene	ND		1830	1600		ug/Kg	☼	87	64 - 120
Benzo[g,h,i]perylene	ND		1830	1710		ug/Kg	☼	94	45 - 145
Benzo[k]fluoranthene	ND		1830	1550		ug/Kg	☼	85	65 - 120
Chrysene	ND		1830	1740		ug/Kg	☼	95	64 - 120
Dibenz(a,h)anthracene	ND		1830	1660		ug/Kg	☼	91	54 - 132
Fluoranthene	ND		1830	1610		ug/Kg	☼	88	62 - 120
Fluorene	ND		1830	1620		ug/Kg	☼	89	63 - 120
Indeno[1,2,3-cd]pyrene	ND		1830	1670		ug/Kg	☼	91	56 - 134
Naphthalene	ND		1830	1470		ug/Kg	☼	81	46 - 120
Pyrene	ND		1830	1730		ug/Kg	☼	95	61 - 133
Phenanthrene	ND		1830	1690		ug/Kg	☼	92	60 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*54 - 120*
2-Fluorobiphenyl	*89*		*60 - 120*
2-Fluorophenol (Surr)	*75*		*52 - 120*
Phenol-d5 (Surr)	*77*		*54 - 120*
p-Terphenyl-d14 (Surr)	*93*		*65 - 121*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*

Lab Sample ID: 480-130449-3 MSD
Matrix: Solid
Analysis Batch: 397295

Client Sample ID: SB-4 (2-4)
Prep Type: Total/NA
Prep Batch: 397187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1830	1560		ug/Kg	☼	85	60 - 120	3	35
Acenaphthylene	ND		1830	1550		ug/Kg	☼	85	58 - 121	3	18
Anthracene	ND		1830	1680		ug/Kg	☼	92	62 - 120	0	15
Benzo[a]anthracene	ND		1830	1780		ug/Kg	☼	97	65 - 120	3	15
Benzo[a]pyrene	ND		1830	1590		ug/Kg	☼	87	64 - 120	1	15
Benzo[b]fluoranthene	ND		1830	1590		ug/Kg	☼	87	64 - 120	0	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-130449-3 MSD
Matrix: Solid
Analysis Batch: 397295

Client Sample ID: SB-4 (2-4)
Prep Type: Total/NA
Prep Batch: 397187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	ND		1830	1750		ug/Kg	☼	96	45 - 145	2	15
Benzo[k]fluoranthene	ND		1830	1570		ug/Kg	☼	86	65 - 120	2	22
Chrysene	ND		1830	1780		ug/Kg	☼	98	64 - 120	2	15
Dibenz(a,h)anthracene	ND		1830	1710		ug/Kg	☼	94	54 - 132	3	15
Fluoranthene	ND		1830	1640		ug/Kg	☼	90	62 - 120	2	15
Fluorene	ND		1830	1620		ug/Kg	☼	89	63 - 120	0	15
Indeno[1,2,3-cd]pyrene	ND		1830	1710		ug/Kg	☼	93	56 - 134	2	15
Naphthalene	ND		1830	1470		ug/Kg	☼	80	46 - 120	0	29
Pyrene	ND		1830	1730		ug/Kg	☼	95	61 - 133	0	35
Phenanthrene	ND		1830	1690		ug/Kg	☼	93	60 - 122	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*54 - 120*
2-Fluorobiphenyl	*83*		*60 - 120*
2-Fluorophenol (Surr)	*77*		*52 - 120*
Phenol-d5 (Surr)	*77*		*54 - 120*
p-Terphenyl-d14 (Surr)	*95*		*65 - 121*
Nitrobenzene-d5 (Surr)	*80*		*53 - 120*

GC/MS VOA

Leach Batch: 397113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-4	SB-7 (4-6)	TCLP	Solid	1311	
480-130449-4 - DL	SB-7 (4-6)	TCLP	Solid	1311	
LB 480-397113/1-A	Method Blank	TCLP	Solid	1311	

Prep Batch: 397178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-1	SB-1 (10-12)	Total/NA	Solid	5035A_H	
480-130449-2	SB-3 (6-8)	Total/NA	Solid	5035A_H	
480-130449-4	SB-7 (4-6)	Total/NA	Solid	5035A_H	
480-130449-5	SB-7 (6-8)	Total/NA	Solid	5035A_H	
480-130449-6	SB-8 (4-6)	Total/NA	Solid	5035A_H	
480-130449-7	SB-11 (2-4)	Total/NA	Solid	5035A_H	
MB 480-397178/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-397178/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Analysis Batch: 397230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-8	TWW-1	Total/NA	Water	8260C	
MB 480-397230/8	Method Blank	Total/NA	Water	8260C	
LCS 480-397230/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 397236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-4	SB-7 (4-6)	TCLP	Solid	8260C	397113
LB 480-397113/1-A	Method Blank	TCLP	Solid	8260C	397113
MB 480-397236/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-397236/6	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 397378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-1	SB-1 (10-12)	Total/NA	Solid	8260C	397178
480-130449-2	SB-3 (6-8)	Total/NA	Solid	8260C	397178
480-130449-4	SB-7 (4-6)	Total/NA	Solid	8260C	397178
480-130449-5	SB-7 (6-8)	Total/NA	Solid	8260C	397178
480-130449-6	SB-8 (4-6)	Total/NA	Solid	8260C	397178
480-130449-7	SB-11 (2-4)	Total/NA	Solid	8260C	397178
MB 480-397178/2-A	Method Blank	Total/NA	Solid	8260C	397178
LCS 480-397178/1-A	Lab Control Sample	Total/NA	Solid	8260C	397178

Analysis Batch: 397428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-4 - DL	SB-7 (4-6)	TCLP	Solid	8260C	397113
MB 480-397428/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-397428/5	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 397187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-3	SB-4 (2-4)	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 397187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-397187/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-397187/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-130449-3 MS	SB-4 (2-4)	Total/NA	Solid	3550C	
480-130449-3 MSD	SB-4 (2-4)	Total/NA	Solid	3550C	

Analysis Batch: 397295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-3	SB-4 (2-4)	Total/NA	Solid	8270D	397187
MB 480-397187/1-A	Method Blank	Total/NA	Solid	8270D	397187
LCS 480-397187/2-A	Lab Control Sample	Total/NA	Solid	8270D	397187
480-130449-3 MS	SB-4 (2-4)	Total/NA	Solid	8270D	397187
480-130449-3 MSD	SB-4 (2-4)	Total/NA	Solid	8270D	397187

General Chemistry

Analysis Batch: 397013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-3	SB-4 (2-4)	Total/NA	Solid	Moisture	

Analysis Batch: 397144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130449-1	SB-1 (10-12)	Total/NA	Solid	Moisture	
480-130449-2	SB-3 (6-8)	Total/NA	Solid	Moisture	
480-130449-4	SB-7 (4-6)	Total/NA	Solid	Moisture	
480-130449-5	SB-7 (6-8)	Total/NA	Solid	Moisture	
480-130449-6	SB-8 (4-6)	Total/NA	Solid	Moisture	
480-130449-7	SB-11 (2-4)	Total/NA	Solid	Moisture	

Client Sample ID: SB-1 (10-12) — **Lab Sample ID: 480-130449-1**
Date Collected: 01/22/18 08:45 — **Matrix: Solid**
Date Received: 01/23/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	397144	01/24/18 13:16	CDC	TAL BUF

Client Sample ID: SB-1 (10-12) — **Lab Sample ID: 480-130449-1**
Date Collected: 01/22/18 08:45 — **Matrix: Solid**
Date Received: 01/23/18 15:15 — **Percent Solids: 84.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			397178	01/24/18 15:46	MXS	TAL BUF
Total/NA	Analysis	8260C		1	397378	01/26/18 00:11	AEM	TAL BUF

Client Sample ID: SB-3 ~~(6-8)~~ — **Lab Sample ID: 480-130449-2**
Date Collected: 01/22/18 09:30 — **Matrix: Solid**
Date Received: 01/23/18 15:15

Note: Actual Sample was taken from 4'-4.5'

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	397144	01/24/18 13:16	CDC	TAL BUF

Client Sample ID: SB-3 (6-8) — **Lab Sample ID: 480-130449-2**
Date Collected: 01/22/18 09:30 — **Matrix: Solid**
Date Received: 01/23/18 15:15 — **Percent Solids: 92.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			397178	01/24/18 15:46	MXS	TAL BUF
Total/NA	Analysis	8260C		4	397378	01/26/18 00:34	AEM	TAL BUF

Client Sample ID: SB-4 (2-4) — **Lab Sample ID: 480-130449-3**
Date Collected: 01/22/18 10:00 — **Matrix: Solid**
Date Received: 01/23/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	397013	01/24/18 07:02	CSW	TAL BUF

Client Sample ID: SB-4 (2-4) — **Lab Sample ID: 480-130449-3**
Date Collected: 01/22/18 10:00 — **Matrix: Solid**
Date Received: 01/23/18 15:15 — **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			397187	01/24/18 16:05	ATG	TAL BUF
Total/NA	Analysis	8270D		1	397295	01/26/18 00:10	PJQ	TAL BUF

Client Sample ID: SB-7 (4-6) — **Lab Sample ID: 480-130449-4**
Date Collected: 01/22/18 11:15 — **Matrix: Solid**
Date Received: 01/23/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			397113	01/24/18 11:13	NMC	TAL BUF
TCLP	Analysis	8260C		10	397236	01/25/18 13:21	ARS	TAL BUF
TCLP	Leach	1311	DL		397113	01/24/18 11:13	NMC	TAL BUF
TCLP	Analysis	8260C	DL	50	397428	01/26/18 13:34	KMN	TAL BUF
Total/NA	Analysis	Moisture		1	397144	01/24/18 13:16	CDC	TAL BUF

Client Sample ID: SB-7 (4-6) — **Lab Sample ID: 480-130449-4**
Date Collected: 01/22/18 11:15 — **Matrix: Solid**
Date Received: 01/23/18 15:15 — **Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			397178	01/24/18 15:46	MXS	TAL BUF
Total/NA	Analysis	8260C		20	397378	01/26/18 00:57	AEM	TAL BUF

Client Sample ID: SB-7 (6-8) — **Lab Sample ID: 480-130449-5**
Date Collected: 01/22/18 11:15 — **Matrix: Solid**
Date Received: 01/23/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	397144	01/24/18 13:16	CDC	TAL BUF

Client Sample ID: SB-7 (6-8) — **Lab Sample ID: 480-130449-5**
Date Collected: 01/22/18 11:15 — **Matrix: Solid**
Date Received: 01/23/18 15:15 — **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			397178	01/24/18 15:46	MXS	TAL BUF
Total/NA	Analysis	8260C		2	397378	01/26/18 01:20	AEM	TAL BUF

Client Sample ID: SB-8 (4-6) — **Lab Sample ID: 480-130449-6**
Date Collected: 01/22/18 11:30 — **Matrix: Solid**
Date Received: 01/23/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	397144	01/24/18 13:16	CDC	TAL BUF

Client Sample ID: SB-8 (4-6) — **Lab Sample ID: 480-130449-6**
Date Collected: 01/22/18 11:30 — **Matrix: Solid**
Date Received: 01/23/18 15:15 — **Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			397178	01/24/18 15:46	MXS	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Client Sample ID: SB-8 (4-6)

Lab Sample ID: 480-130449-6

Date Collected: 01/22/18 11:30
Matrix: Solid
Date Received: 01/23/18 15:15
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	397378	01/26/18 01:43	AEM	TAL BUF

Client Sample ID: SB-11 (2-4)

Lab Sample ID: 480-130449-7

Date Collected: 01/22/18 13:15
Matrix: Solid
Date Received: 01/23/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	397144	01/24/18 13:16	CDC	TAL BUF

Client Sample ID: SB-11 (2-4)

Lab Sample ID: 480-130449-7

Date Collected: 01/22/18 13:15
Matrix: Solid
Date Received: 01/23/18 15:15
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			397178	01/24/18 15:46	MXS	TAL BUF
Total/NA	Analysis	8260C		2	397378	01/26/18 02:07	AEM	TAL BUF

Client Sample ID: TWW-1

Lab Sample ID: 480-130449-8

Date Collected: 01/22/18 16:00
Matrix: Water
Date Received: 01/23/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	397230	01/25/18 11:40	KMN	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077-3097 Union Rd

TestAmerica Job ID: 480-130449-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-130449-1	SB-1 (10-12)	Solid	01/22/18 08:45	01/23/18 15:15
480-130449-2	SB-3 (6-8)	Solid	01/22/18 09:30	01/23/18 15:15
480-130449-3	SB-4 (2-4)	Solid	01/22/18 10:00	01/23/18 15:15
480-130449-4	SB-7 (4-6)	Solid	01/22/18 11:15	01/23/18 15:15
480-130449-5	SB-7 (6-8)	Solid	01/22/18 11:15	01/23/18 15:15
480-130449-6	SB-8 (4-6)	Solid	01/22/18 11:30	01/23/18 15:15
480-130449-7	SB-11 (2-4)	Solid	01/22/18 13:15	01/23/18 15:15
480-130449-8	TWW-1	Water	01/22/18 16:00	01/23/18 15:15

Note: Actual Sample for SB-3was taken from 4'-4.5'

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

239905

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

480-130449 COC

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: BRYAN MAYBACK	Site Contact:	Date: 1/23
Company Name: TURNKEY ENVIRONMENTAL REST.	Tel/Fax: 716-856-0599	Lab Contact: BRIAN FISCHER	Carrier:
Address: 2558 HAMBURG TURNPIKE	Analysis Turnaround Time		
City/State/Zip: BUFFALO, NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone: 716 856-0599	TAT if different from Below _____		
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day (Std. (see email from Brian Fischer))		
Project Name: 3077-3097 UNION RD			
Site:			
PO # T0105-017-010			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CP51 + TCL VOCs 8260	CP51 SVOCs 8270	TCLP VOCs
SB-1 (10-12)	1/22	845	G	SOIL	2	N	N	X		
SB-3 ~~(6-8)~~		950			2			X		
SB-4 (2-4)		1000			1				X	
SB-7 (4-6)		1115			2			X		X
SB-7 (6-8)		1115			2			X		
SB-8 (4-6)		1130			2			X		
SB-11 (2-4)		1315			2			X		
TWW-1		1600		AQUA	3			X		

Note: Actual Sample for SB-3 was taken from 4'-4.5'

Sample Specific Notes:

Hold Extra Sample Volume for Potential Additional Analysis

Job / SDG No.: 130449 *17437

Lab Use Only: Walk-in Client: Lab Sampling:

COC No: _____ of _____ COCs

Sampler: CHAD SCHUSTER

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 0.5 Corr'd: _____ | Therm ID No.: 4

	Company	Date/Time		Company	Date/Time
Relinquished by: Chad M Schuster	TURNKEY	1/22/18 1630	Received by:	TA	01/23/18 1200
Relinquished by:	TA	01/23/18 1515	Received by:		1/23/18 1515
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-130449-1

Login Number: 130449

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth P

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 480-180934-1
Client Project/Site: Benchmark - 3077 Union Rd

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
2/19/2021 10:58:26 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

LINKS

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

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

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

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180934-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180934-1

Comments
No additional comments.

Receipt
The samples were received on 2/5/2021 3:35 PM and 2/5/2021 5:33 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 2.8º C, 3.0º C, 3.1º C, 3.1º C, 3.3º C, 3.4º C, 3.5º C, 3.6º C, 3.7º C, 3.8º C, 4.1º C and 4.2º C.

Receipt Exceptions

All samples received were not listed on the COC. Dates and times wre listed on the container labels: MW-8D (480-180934-5), MW-1D (480-180934-6), MW-9 (480-180934-7), MW-8 (480-180934-8), MW-1 (480-180934-9), MW-1 (480-180934-9[MS]) and MW-1 (480-180934-9[MSD]).

Incomplete COC set received. Samples recieved/not present on the COC: MW-13 (480-180934-1), BD (480-180934-2), MW-12 (480-180934-3), EQUIPMENT BLANK (480-180934-4), MW-8D (480-180934-5), MW-1D (480-180934-6), MW-9 (480-180934-7), MW-8 (480-180934-8), MW-1 (480-180934-9), MW-1 (480-180934-9[MS]) and MW-1 (480-180934-9[MSD]).

COC was not received with sample set, as a result samples were logged using the information listed on the sample containers: MW-4D (480-181055-1), MW-2D (480-181055-2), PZ-3 (480-181055-3), PZ-2 (480-181055-4), PZ-4 (480-181055-5) and PZ-5 (480-181055-6).

GC/MS VOA
Method 8260C: The following samples were collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-13 (480-180934-1).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-3 (480-181055-3) and PZ-4 (480-181055-5). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D SIM ID: The following samples were diluted due to the abundance of non-target analytes: MW-1 (480-180934-9), MW-1 (480-180934-9[MS]) and MW-1 (480-180934-9[MSD]). Elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-568786 recovered outside acceptance criteria, low biased, for 2,4,6-Trichlorophenol, 4-Chloro-3-methylphenol, 4-Nitrophenol, Carbazole and Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 480-568786 was outside criteria for the following analyte(s): 4-Chloro-3-methylphenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-12 (480-180934-3), MW-1D (480-180934-6), MW-9 (480-180934-7), MW-8 (480-180934-8) and MW-1 (480-180934-9[MS]). These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-568692 and analytical batch 480-568786 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Job ID: 480-180934-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Pentachlorophenol. The laboratory control sample (LCS), matrix spike (MS) and matrix spike duplicate (MSD) associated with preparation batch 480-568692 and analytical batch 480-568786 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

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

GC Semi VOA
Method 8081B: The continuing calibration verification (CCV) associated with batch 480-568888 recovered above the upper control limit for Endrin aldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-13 (480-180934-1), BD (480-180934-2), MW-12 (480-180934-3), EQUIPMENT BLANK (480-180934-4), MW-8D (480-180934-5), MW-1D (480-180934-6), MW-9 (480-180934-7), MW-8 (480-180934-8) and MW-1 (480-180934-9).

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-568839 and analytical batch 480-568888 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. MW-1 (480-180934-9)

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-568839 and analytical batch 480-568888 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected. MW-1 (480-180934-9)

Method 8081B: For method 8081, the recovery of the one surrogate in samples MW-12 (480-180934-3) and MW-1 (480-180934-9[MSD]) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

Method 8082A: Surrogate recovery for the following sample was outside control limits: BD (480-180934-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8151A: Surrogate recovery for the following sample was outside control limits: BD (480-180934-2) and MW-9 (480-180934-7). Re-extraction and or re-analysis was not performed producing similar results

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

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

LCMS
Methods 537 (modified), EPA 537(Mod): The "I" qualifier means the transition mass ratio for the indicated analytes were outside of the established ratio limits. The qualitative identification of the analytes have some degree of uncertainty. However, analyst judgment was used to positively identify the analytes: (ICB 320-453113/9).

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analytes was outside of the established ratio limits. The qualitative identification of the analytes have some degree of uncertainty. However, analyst judgment was used to positively identify the analyte: MW-13 (480-180934-1), MW-1D (480-180934-6), MW-9 (480-180934-7) and MW-8 (480-180934-8).

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-8:2 FTS in the following samples: BD (480-180934-2), MW-12 (480-180934-3) and MW-9 (480-180934-7). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

Organic Prep
Method 8151A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-8 (480-180934-8). The reporting limits (RLs) have been adjusted proportionately.

Job ID: 480-180934-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-569472.

Method 8151A: The following samples were re-prepared outside of preparation holding time due to low surrogate recovery: BD (480-180934-2) and MW-9 (480-180934-7).

Method 3535: The following samples had gray sediments prior to extraction: BD (480-180934-2), MW-8D (480-180934-5), MW-8 (480-180934-8) and MW-1 (480-180934-9[MSD]).

Method 3535: The following samples were cloudy prior to extraction: MW-9 (480-180934-7) and MW-1 (480-180934-9[MS]).

Method 3535: The following samples contained sediments which clogged the cartridge during extraction: BD (480-180934-2), MW-8D (480-180934-5), MW-8 (480-180934-8) and MW-1 (480-180934-9[MSD]).

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-13 — Lab Sample ID: 480-180934-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.34	J	5.0	0.31	ug/L	1		8270D	Total/NA
Perfluoropentanoic acid (PFPeA)	0.67	J	1.87	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.65	J	1.87	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.46	J	1.87	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.09	J	1.87	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.54	J I	1.87	0.51	ng/L	1		537 (modified)	Total/NA
6:2 FTS	7.46		4.69	2.34	ng/L	1		537 (modified)	Total/NA
Aluminum	0.49		0.20		mg/L	1		6010C	Total/NA
Barium	0.12		0.0020		mg/L	1		6010C	Total/NA
Calcium	103		0.50		mg/L	1		6010C	Total/NA
Iron	0.42		0.050		mg/L	1		6010C	Total/NA
Magnesium	35.2		0.20		mg/L	1		6010C	Total/NA
Manganese	0.029		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.9		0.50		mg/L	1		6010C	Total/NA
Sodium	15.6		1.0		mg/L	1		6010C	Total/NA

Client Sample ID: BD — Lab Sample ID: 480-180934-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.2	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.59	J	1.0	0.19	ug/L	1		8260C	Total/NA
Chloroform	1.2		1.0	0.34	ug/L	1		8260C	Total/NA
Cyclohexane	0.68	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	4.3		1.0	0.16	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.12	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Caprolactam	6.4		5.0	2.2	ug/L	1		8270D	Total/NA
Diethyl phthalate	0.38	J	5.0	0.22	ug/L	1		8270D	Total/NA
delta-BHC	0.017	J B	0.050	0.010	ug/L	1		8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.47	J	1.85	0.45	ng/L	1		537 (modified)	Total/NA
Aluminum	5.2		0.20		mg/L	1		6010C	Total/NA
Barium	0.078		0.0020		mg/L	1		6010C	Total/NA
Calcium	116		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0081		0.0040		mg/L	1		6010C	Total/NA
Iron	5.5		0.050		mg/L	1		6010C	Total/NA
Magnesium	49.3		0.20		mg/L	1		6010C	Total/NA
Manganese	0.10		0.0030		mg/L	1		6010C	Total/NA
Potassium	11.3		0.50		mg/L	1		6010C	Total/NA
Sodium	162		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.0098		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.010		0.010		mg/L	1		6010C	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 480-180934-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.6	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	13		10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.24	J	1.0	0.19	ug/L	1		8260C	Total/NA
Cyclohexane	0.46	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.95	J	1.0	0.16	ug/L	1		8260C	Total/NA
gamma-BHC (Lindane)	0.015	J	0.050	0.0080	ug/L	1		8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.93	J	1.84	0.45	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.32	J	1.84	0.23	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-12 (Continued)
Lab Sample ID: 480-180934-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 FTS	15.3		4.60	2.30	ng/L	1		537 (modified)	Total/NA
Barium	0.073		0.0020		mg/L	1		6010C	Total/NA
Calcium	242		0.50		mg/L	1		6010C	Total/NA
Iron	0.063		0.050		mg/L	1		6010C	Total/NA
Magnesium	57.7		0.20		mg/L	1		6010C	Total/NA
Manganese	0.22		0.0030		mg/L	1		6010C	Total/NA
Potassium	23.3		0.50		mg/L	1		6010C	Total/NA
Sodium	33.7		1.0		mg/L	1		6010C	Total/NA

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-180934-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.8	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	23		10	3.0	ug/L	1		8260C	Total/NA
Acetophenone	0.65	J	5.0	0.54	ug/L	1		8270D	Total/NA
delta-BHC	0.010	J B	0.050	0.010	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.0094	J	0.050	0.0080	ug/L	1		8081B	Total/NA

Client Sample ID: MW-8D
Lab Sample ID: 480-180934-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.62	J	1.0	0.19	ug/L	1		8260C	Total/NA
Chloroform	1.1		1.0	0.34	ug/L	1		8260C	Total/NA
Cyclohexane	0.60	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	3.7		1.0	0.16	ug/L	1		8260C	Total/NA
Butyl benzyl phthalate	1.0	J	5.0	1.0	ug/L	1		8270D	Total/NA
Caprolactam	8.0		5.0	2.2	ug/L	1		8270D	Total/NA
Aluminum	3.8		0.20		mg/L	1		6010C	Total/NA
Barium	0.073		0.0020		mg/L	1		6010C	Total/NA
Calcium	114		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0065		0.0040		mg/L	1		6010C	Total/NA
Iron	4.2		0.050		mg/L	1		6010C	Total/NA
Magnesium	48.3		0.20		mg/L	1		6010C	Total/NA
Manganese	0.096		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.011		0.010		mg/L	1		6010C	Total/NA
Potassium	10.9		0.50		mg/L	1		6010C	Total/NA
Sodium	160		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.0077		0.0050		mg/L	1		6010C	Total/NA

Client Sample ID: MW-1D
Lab Sample ID: 480-180934-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	4.1		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	3.9		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	1.2		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	4.2		2.0	0.66	ug/L	1		8260C	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.72	J I	1.88	0.51	ng/L	1		537 (modified)	Total/NA
Barium	0.015		0.0020		mg/L	1		6010C	Total/NA
Calcium	68.7		0.50		mg/L	1		6010C	Total/NA
Iron	0.16		0.050		mg/L	1		6010C	Total/NA
Magnesium	40.0		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180934-1
Project/Site: Benchmark - 3077 Union Rd

Client Sample ID: MW-1D (Continued)
Lab Sample ID: 480-180934-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.013		0.0030		mg/L	1		6010C	Total/NA
Potassium	5.2		0.50		mg/L	1		6010C	Total/NA
Sodium	183		1.0		mg/L	1		6010C	Total/NA

Client Sample ID: MW-9
Lab Sample ID: 480-180934-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.19	J	1.0	0.19	ug/L	1		8260C	Total/NA
delta-BHC	0.014	J B	0.050	0.010	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.0099	J	0.050	0.0080	ug/L	1		8081B	Total/NA
Heptachlor epoxide	0.012	J	0.050	0.0074	ug/L	1		8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.57	J	1.87	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.99	J I	1.87	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.95	J	1.87	0.92	ng/L	1		537 (modified)	Total/NA
6:2 FTS	2.80	J	4.67	2.33	ng/L	1		537 (modified)	Total/NA
Aluminum	1.1		0.20		mg/L	1		6010C	Total/NA
Barium	0.070		0.0020		mg/L	1		6010C	Total/NA
Calcium	135		0.50		mg/L	1		6010C	Total/NA
Iron	1.5		0.050		mg/L	1		6010C	Total/NA
Magnesium	48.5		0.20		mg/L	1		6010C	Total/NA
Manganese	0.47		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.3		0.50		mg/L	1		6010C	Total/NA
Sodium	18.5		1.0		mg/L	1		6010C	Total/NA

Client Sample ID: MW-8
Lab Sample ID: 480-180934-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.3	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	1.2		1.0	0.19	ug/L	1		8260C	Total/NA
delta-BHC	0.020	J B	0.050	0.010	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.014	J	0.050	0.0080	ug/L	1		8081B	Total/NA
Heptachlor	0.013	J	0.050	0.0085	ug/L	1		8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	1.04	J	1.83	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.30	J	1.83	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.66	J	1.83	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.68	J I	1.83	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.54	J	1.83	0.49	ng/L	1		537 (modified)	Total/NA
6:2 FTS	30.7		4.57	2.28	ng/L	1		537 (modified)	Total/NA
Barium	0.094		0.0020		mg/L	1		6010C	Total/NA
Calcium	191		0.50		mg/L	1		6010C	Total/NA
Iron	0.47		0.050		mg/L	1		6010C	Total/NA
Magnesium	61.5		0.20		mg/L	1		6010C	Total/NA
Manganese	0.19		0.0030		mg/L	1		6010C	Total/NA
Potassium	14.3		0.50		mg/L	1		6010C	Total/NA
Sodium	145		1.0		mg/L	1		6010C	Total/NA

Client Sample ID: MW-1
Lab Sample ID: 480-180934-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC	0.018	J B	0.050	0.010	ug/L	1		8081B	Total/NA
Perfluorobutanoic acid (PFBA)	3.14	J	4.56	2.19	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: MW-1 (Continued)
Lab Sample ID: 480-180934-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.54	J	1.82	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.43	J	1.82	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.53	J	1.82	0.49	ng/L	1		537 (modified)	Total/NA
Barium	0.030		0.0020		mg/L	1		6010C	Total/NA
Calcium	126		0.50		mg/L	1		6010C	Total/NA
Magnesium	47.8		0.20		mg/L	1		6010C	Total/NA
Manganese	0.015	F1	0.0030		mg/L	1		6010C	Total/NA
Potassium	5.1		0.50		mg/L	1		6010C	Total/NA
Sodium	69.7		1.0		mg/L	1		6010C	Total/NA

Client Sample ID: MW-4D
Lab Sample ID: 480-181055-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.39	J	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	2.3		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2D
Lab Sample ID: 480-181055-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.6		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	1.1		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	41		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-3
Lab Sample ID: 480-181055-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		250	200	ug/L	250		8260C	Total/NA
Tetrachloroethene	25000	E	250	90	ug/L	250		8260C	Total/NA
Trichloroethene	1600		250	120	ug/L	250		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1700		400	320	ug/L	400		8260C	Total/NA
Tetrachloroethene - DL	25000		400	140	ug/L	400		8260C	Total/NA
Trichloroethene - DL	1500		400	180	ug/L	400		8260C	Total/NA

Client Sample ID: PZ-2
Lab Sample ID: 480-181055-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	13		10	1.3	ug/L	1		8260C	Total/NA
Acetone	17		10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.31	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.85	J	1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	16		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.88	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-4
Lab Sample ID: 480-181055-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.6	J	10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	770		10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	240		10	3.6	ug/L	10		8260C	Total/NA
trans-1,2-Dichloroethene	46		10	9.0	ug/L	10		8260C	Total/NA
Trichloroethene	920		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	130		10	9.0	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180934-1
Project/Site: Benchmark - 3077 Union Rd

Client Sample ID: PZ-5
Lab Sample ID: 480-181055-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.24	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.2		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	1.7		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-13
Date Collected: 02/04/21 15:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 12:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 12:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 12:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 12:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 12:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 12:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 12:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 12:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 12:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 12:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 12:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 12:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 12:53	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 12:53	1
Acetone	ND		10	3.0	ug/L			02/08/21 12:53	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 12:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 12:53	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 12:53	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 12:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/08/21 12:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 12:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 12:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 12:53	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 12:53	1
Chloroform	ND		1.0	0.34	ug/L			02/08/21 12:53	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 12:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 12:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 12:53	1
Cyclohexane	ND		1.0	0.18	ug/L			02/08/21 12:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 12:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 12:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 12:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 12:53	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 12:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 12:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/08/21 12:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 12:53	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 12:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 12:53	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 12:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 12:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 12:53	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 12:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 12:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 12:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 12:53	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-13

Date Collected: 02/04/21 15:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/08/21 12:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*02/08/21 12:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*02/08/21 12:53*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*02/08/21 12:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/09/21 17:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*02/08/21 15:07*	*02/09/21 17:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 17:00	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 17:00	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 17:00	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 17:00	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 17:00	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 17:00	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 17:00	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 17:00	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:00	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 17:00	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 17:00	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:00	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 17:00	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 17:00	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 17:00	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:00	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 17:00	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 17:00	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 17:00	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 17:00	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 17:00	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 17:00	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 17:00	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 17:00	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 17:00	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 17:00	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 17:00	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 17:00	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 17:00	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 17:00	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 17:00	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 17:00	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 17:00	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 17:00	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 17:00	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 17:00	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 17:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-13
Date Collected: 02/04/21 15:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 17:00	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 17:00	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 17:00	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 17:00	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 17:00	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 17:00	1
Di-n-butyl phthalate	**0.34**	**J**	5.0	0.31	ug/L		02/08/21 14:57	02/09/21 17:00	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 17:00	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 17:00	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 17:00	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 17:00	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:00	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 17:00	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 17:00	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 17:00	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 17:00	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 17:00	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 17:00	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 17:00	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 17:00	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 17:00	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 17:00	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 17:00	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 17:00	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 17:00	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 17:00	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*98*		*46 - 120*	*02/08/21 14:57*	*02/09/21 17:00*	*1*
Phenol-d5 (Surr)	*48*		*22 - 120*	*02/08/21 14:57*	*02/09/21 17:00*	*1*
p-Terphenyl-d14 (Surr)	*79*		*60 - 148*	*02/08/21 14:57*	*02/09/21 17:00*	*1*
2,4,6-Tribromophenol (Surr)	*108*		*41 - 120*	*02/08/21 14:57*	*02/09/21 17:00*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*02/08/21 14:57*	*02/09/21 17:00*	*1*
2-Fluorophenol (Surr)	*65*		*35 - 120*	*02/08/21 14:57*	*02/09/21 17:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 13:40	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 13:40	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 13:40	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 13:40	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 13:40	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 13:40	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 13:40	1
delta-BHC	ND		0.050	0.010	ug/L		02/09/21 15:24	02/10/21 13:40	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 13:40	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 13:40	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 13:40	1

Client Sample ID: MW-13
Lab Sample ID: 480-180934-1
Date Collected: 02/04/21 15:00
Matrix: Water
Date Received: 02/05/21 15:35

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 13:40	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 13:40	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 13:40	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 13:40	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 13:40	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 13:40	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 13:40	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 13:40	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 13:40	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*02/09/21 15:24*	*02/10/21 13:40*	*1*
Tetrachloro-m-xylene	*107*		*44 - 120*	*02/09/21 15:24*	*02/10/21 13:40*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		02/10/21 07:35	02/10/21 22:09	1
PCB-1221	ND		0.52	0.18	ug/L		02/10/21 07:35	02/10/21 22:09	1
PCB-1232	ND		0.52	0.18	ug/L		02/10/21 07:35	02/10/21 22:09	1
PCB-1242	ND		0.52	0.18	ug/L		02/10/21 07:35	02/10/21 22:09	1
PCB-1248	ND		0.52	0.18	ug/L		02/10/21 07:35	02/10/21 22:09	1
PCB-1254	ND		0.52	0.26	ug/L		02/10/21 07:35	02/10/21 22:09	1
PCB-1260	ND		0.52	0.26	ug/L		02/10/21 07:35	02/10/21 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*39 - 121*	*02/10/21 07:35*	*02/10/21 22:09*	*1*
DCB Decachlorobiphenyl	*49*		*19 - 120*	*02/10/21 07:35*	*02/10/21 22:09*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/11/21 21:07	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/11/21 21:07	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/11/21 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*59*		*48 - 132*	*02/10/21 15:10*	*02/11/21 21:07*	*1*
2,4-Dichlorophenylacetic acid	*64*		*48 - 132*	*02/10/21 15:10*	*02/11/21 21:07*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.69		4.69	2.25	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluoropentanoic acid (PFPeA)	**0.67**	**J**	1.87	0.46	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorohexanoic acid (PFHxA)	**0.65**	**J**	1.87	0.54	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluoroheptanoic acid (PFHpA)	**0.46**	**J**	1.87	0.23	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorooctanoic acid (PFOA)	**1.09**	**J**	1.87	0.80	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorononanoic acid (PFNA)	1.87		1.87	0.25	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorodecanoic acid (PFDA)	1.87		1.87	0.29	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluoroundecanoic acid (PFUnA)	1.87		1.87	1.03	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorododecanoic acid (PFDoA)	1.87		1.87	0.52	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorotridecanoic acid (PFTriA)	1.87		1.87	1.22	ng/L		02/10/21 18:51	02/11/21 09:12	1

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Date Collected: 02/04/21 15:00
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Lab Sample ID: 480-180934-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	1.87		1.87	0.68	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorobutanesulfonic acid (PFBS)	1.87		1.87	0.19	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorohexanesulfonic acid (PFHxS)	1.87		1.87	0.53	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.87		1.87	0.18	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorooctanesulfonic acid (PFOS)	**1.54**	**J I**	1.87	0.51	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorodecanesulfonic acid (PFDS)	1.87		1.87	0.30	ng/L		02/10/21 18:51	02/11/21 09:12	1
Perfluorooctanesulfonamide (FOSA)	1.87		1.87	0.92	ng/L		02/10/21 18:51	02/11/21 09:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.69		4.69	1.12	ng/L		02/10/21 18:51	02/11/21 09:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.69		4.69	1.22	ng/L		02/10/21 18:51	02/11/21 09:12	1
6:2 FTS	**7.46**		4.69	2.34	ng/L		02/10/21 18:51	02/11/21 09:12	1
8:2 FTS	1.87		1.87	0.43	ng/L		02/10/21 18:51	02/11/21 09:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C5 PFPeA	*58*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C2 PFHxA	*97*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C4 PFHpA	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C4 PFOA	*107*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C5 PFNA	*97*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C2 PFDA	*106*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C2 PFUnA	*104*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C2 PFDoA	*96*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C2 PFTeDA	*98*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C3 PFBS	*76*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
18O2 PFHxS	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C4 PFOS	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
13C8 FOSA	*88*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
d3-NMeFOSAA	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
d5-NEtFOSAA	*79*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*
M2-8:2 FTS	*147*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.49**		0.20		mg/L		02/08/21 10:57	02/11/21 16:06	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:06	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:06	1
Barium	**0.12**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:06	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:06	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:06	1
Calcium	**103**		0.50		mg/L		02/08/21 10:57	02/11/21 16:06	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:06	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:06	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:06	1
Iron	**0.42**		0.050		mg/L		02/08/21 10:57	02/11/21 16:06	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:06	1
Magnesium	**35.2**		0.20		mg/L		02/08/21 10:57	02/11/21 16:06	1

Client: Benchmark Env. Eng. & Science, PLLC
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Client Sample ID: MW-13
Lab Sample ID: 480-180934-1
Date Collected: 02/04/21 15:00
Matrix: Water
Date Received: 02/05/21 15:35

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.029**		0.0030		mg/L		02/08/21 10:57	02/11/21 16:06	1
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:06	1
Potassium	**9.9**		0.50		mg/L		02/08/21 10:57	02/11/21 16:06	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:06	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:06	1
Sodium	**15.6**		1.0		mg/L		02/08/21 10:57	02/11/21 16:06	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:06	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 16:06	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:11	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: BD

Date Collected: 02/04/21 09:45
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Lab Sample ID: 480-180934-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 13:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 13:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 13:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 13:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 13:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 13:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 13:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 13:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 13:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 13:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 13:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 13:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 13:17	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 13:17	1
Acetone	**4.2**	**J**	10	3.0	ug/L			02/08/21 13:17	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 13:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 13:17	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 13:17	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 13:17	1
Carbon disulfide	**0.59**	**J**	1.0	0.19	ug/L			02/08/21 13:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 13:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 13:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 13:17	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 13:17	1
Chloroform	**1.2**		1.0	0.34	ug/L			02/08/21 13:17	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 13:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 13:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 13:17	1
Cyclohexane	**0.68**	**J**	1.0	0.18	ug/L			02/08/21 13:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 13:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 13:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 13:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 13:17	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 13:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 13:17	1
Methylcyclohexane	**4.3**		1.0	0.16	ug/L			02/08/21 13:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 13:17	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 13:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 13:17	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 13:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 13:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 13:17	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 13:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 13:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 13:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 13:17	1

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Client Sample ID: BD

Date Collected: 02/04/21 09:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/08/21 13:17	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/08/21 13:17	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/08/21 13:17	1
Dibromofluoromethane (Surr)	100		75 - 123		02/08/21 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.12	J	0.20	0.10	ug/L		02/08/21 15:07	02/09/21 18:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110	02/08/21 15:07	02/09/21 18:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 17:30	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 17:30	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 17:30	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 17:30	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 17:30	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 17:30	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 17:30	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 17:30	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:30	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 17:30	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 17:30	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:30	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 17:30	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 17:30	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 17:30	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:30	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 17:30	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 17:30	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 17:30	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 17:30	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 17:30	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 17:30	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 17:30	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 17:30	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 17:30	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 17:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 17:30	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 17:30	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 17:30	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 17:30	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 17:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 17:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 17:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 17:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 17:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 17:30	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 17:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: BD
Date Collected: 02/04/21 09:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:30	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 17:30	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 17:30	1
Caprolactam	**6.4**		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 17:30	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 17:30	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 17:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 17:30	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 17:30	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 17:30	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 17:30	1
Diethyl phthalate	**0.38**	**J**	5.0	0.22	ug/L		02/08/21 14:57	02/09/21 17:30	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 17:30	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 17:30	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 17:30	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 17:30	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 17:30	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 17:30	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 17:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 17:30	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 17:30	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 17:30	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 17:30	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 17:30	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 17:30	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 17:30	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 17:30	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 17:30	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*	*02/08/21 14:57*	*02/09/21 17:30*	*1*
Phenol-d5 (Surr)	*52*		*22 - 120*	*02/08/21 14:57*	*02/09/21 17:30*	*1*
p-Terphenyl-d14 (Surr)	*75*		*60 - 148*	*02/08/21 14:57*	*02/09/21 17:30*	*1*
2,4,6-Tribromophenol (Surr)	*116*		*41 - 120*	*02/08/21 14:57*	*02/09/21 17:30*	*1*
2-Fluorobiphenyl	*105*		*48 - 120*	*02/08/21 14:57*	*02/09/21 17:30*	*1*
2-Fluorophenol (Surr)	*70*		*35 - 120*	*02/08/21 14:57*	*02/09/21 17:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 13:59	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 13:59	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 13:59	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 13:59	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 13:59	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 13:59	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 13:59	1
delta-BHC	**0.017**	**J B**	0.050	0.010	ug/L		02/09/21 15:24	02/10/21 13:59	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 13:59	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 13:59	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 13:59	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: BD

Date Collected: 02/04/21 09:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-2

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 13:59	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 13:59	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 13:59	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 13:59	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 13:59	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 13:59	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 13:59	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 13:59	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 13:59	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*20 - 120*	*02/09/21 15:24*	*02/10/21 13:59*	*1*
Tetrachloro-m-xylene	*101*		*44 - 120*	*02/09/21 15:24*	*02/10/21 13:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:21	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:21	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:21	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:21	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:21	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:21	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*39 - 121*	*02/10/21 07:35*	*02/10/21 22:21*	*1*
DCB Decachlorobiphenyl	*17*	*S1-*	*19 - 120*	*02/10/21 07:35*	*02/10/21 22:21*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/11/21 21:37	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/11/21 21:37	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/11/21 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*46*	*S1-*	*48 - 132*	*02/10/21 15:10*	*02/11/21 21:37*	*1*
2,4-Dichlorophenylacetic acid	*46*	*S1-*	*48 - 132*	*02/10/21 15:10*	*02/11/21 21:37*	*1*

Method: 8151A - Herbicides (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	H	0.48	0.065	ug/L		02/15/21 09:22	02/18/21 10:04	1
Silvex (2,4,5-TP)	ND	H	0.48	0.048	ug/L		02/15/21 09:22	02/18/21 10:04	1
2,4-D	ND	H	0.48	0.16	ug/L		02/15/21 09:22	02/18/21 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*50*		*48 - 132*	*02/15/21 09:22*	*02/18/21 10:04*	*1*
2,4-Dichlorophenylacetic acid	*108*		*48 - 132*	*02/15/21 09:22*	*02/18/21 10:04*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: BD

Date Collected: 02/04/21 09:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.63		4.63	2.22	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluoropentanoic acid (PFPeA)	**0.47**	**J**	1.85	0.45	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorohexanoic acid (PFHxA)	1.85		1.85	0.54	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluoroheptanoic acid (PFHpA)	1.85		1.85	0.23	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorooctanoic acid (PFOA)	1.85		1.85	0.79	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorononanoic acid (PFNA)	1.85		1.85	0.25	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorodecanoic acid (PFDA)	1.85		1.85	0.29	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluoroundecanoic acid (PFUnA)	1.85		1.85	1.02	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorododecanoic acid (PFDoA)	1.85		1.85	0.51	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorotridecanoic acid (PFTriA)	1.85		1.85	1.20	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorotetradecanoic acid (PFTeA)	1.85		1.85	0.68	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorobutanesulfonic acid (PFBS)	1.85		1.85	0.19	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorohexanesulfonic acid (PFHxS)	1.85		1.85	0.53	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.85		1.85	0.18	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorooctanesulfonic acid (PFOS)	1.85		1.85	0.50	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorodecanesulfonic acid (PFDS)	1.85		1.85	0.30	ng/L		02/10/21 18:51	02/11/21 09:22	1
Perfluorooctanesulfonamide (FOSA)	1.85		1.85	0.91	ng/L		02/10/21 18:51	02/11/21 09:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.63		4.63	1.11	ng/L		02/10/21 18:51	02/11/21 09:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.63		4.63	1.20	ng/L		02/10/21 18:51	02/11/21 09:22	1
6:2 FTS	4.63		4.63	2.31	ng/L		02/10/21 18:51	02/11/21 09:22	1
8:2 FTS	1.85		1.85	0.43	ng/L		02/10/21 18:51	02/11/21 09:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C5 PFPeA	*56*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C2 PFHxA	*91*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C4 PFHpA	*81*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C4 PFOA	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C5 PFNA	*88*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C2 PFDA	*88*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C2 PFUnA	*77*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C2 PFDoA	*79*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C2 PFTeDA	*75*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C3 PFBS	*75*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
18O2 PFHxS	*85*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C4 PFOS	*80*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
13C8 FOSA	*75*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
d3-NMeFOSAA	*70*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
d5-NEtFOSAA	*63*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
M2-6:2 FTS	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*
M2-8:2 FTS	*157*	**5+*	*25 - 150*	*02/10/21 18:51*	*02/11/21 09:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5.2**		0.20		mg/L		02/08/21 10:57	02/11/21 16:10	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:10	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:10	1
Barium	**0.078**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:10	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: BD

Date Collected: 02/04/21 09:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-2

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:10	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:10	1
Calcium	**116**		0.50		mg/L		02/08/21 10:57	02/11/21 16:10	1
Chromium	**0.0081**		0.0040		mg/L		02/08/21 10:57	02/11/21 16:10	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:10	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:10	1
Iron	**5.5**		0.050		mg/L		02/08/21 10:57	02/11/21 16:10	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:10	1
Magnesium	**49.3**		0.20		mg/L		02/08/21 10:57	02/11/21 16:10	1
Manganese	**0.10**		0.0030		mg/L		02/08/21 10:57	02/11/21 16:10	1
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:10	1
Potassium	**11.3**		0.50		mg/L		02/08/21 10:57	02/11/21 16:10	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:10	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:10	1
Sodium	**162**		1.0		mg/L		02/08/21 10:57	02/11/21 16:10	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:10	1
Vanadium	**0.0098**		0.0050		mg/L		02/08/21 10:57	02/11/21 16:10	1
Zinc	**0.010**		0.010		mg/L		02/08/21 10:57	02/11/21 16:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-12

Date Collected: 02/04/21 13:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 13:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 13:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 13:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 13:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 13:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 13:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 13:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 13:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 13:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 13:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 13:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 13:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 13:41	1
2-Butanone (MEK)	**2.6**	**J**	10	1.3	ug/L			02/08/21 13:41	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 13:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 13:41	1
Acetone	**13**		10	3.0	ug/L			02/08/21 13:41	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 13:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 13:41	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 13:41	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 13:41	1
Carbon disulfide	**0.24**	**J**	1.0	0.19	ug/L			02/08/21 13:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 13:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 13:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 13:41	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 13:41	1
Chloroform	ND		1.0	0.34	ug/L			02/08/21 13:41	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 13:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 13:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 13:41	1
Cyclohexane	**0.46**	**J**	1.0	0.18	ug/L			02/08/21 13:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 13:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 13:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 13:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 13:41	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 13:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 13:41	1
Methylcyclohexane	**0.95**	**J**	1.0	0.16	ug/L			02/08/21 13:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 13:41	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 13:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 13:41	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 13:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 13:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 13:41	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 13:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 13:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 13:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 13:41	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-12

Date Collected: 02/04/21 13:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/08/21 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*02/08/21 13:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*02/08/21 13:41*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*02/08/21 13:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/09/21 18:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*02/08/21 15:07*	*02/09/21 18:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 18:00	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 18:00	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 18:00	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 18:00	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:00	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 18:00	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:00	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:00	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:00	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 18:00	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 18:00	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:00	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 18:00	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 18:00	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 18:00	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:00	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 18:00	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:00	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:00	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:00	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:00	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:00	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 18:00	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 18:00	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 18:00	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 18:00	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 18:00	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 18:00	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 18:00	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 18:00	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 18:00	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:00	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:00	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 18:00	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:00	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 18:00	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:00	1

Client Sample ID: MW-12
Date Collected: 02/04/21 13:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 18:00	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 18:00	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 18:00	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 18:00	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 18:00	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 18:00	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 18:00	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:00	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 18:00	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 18:00	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:00	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:00	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:00	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:00	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 18:00	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:00	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:00	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:00	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 18:00	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 18:00	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:00	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 18:00	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 18:00	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:00	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 18:00	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 18:00	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*104*		*46 - 120*	*02/08/21 14:57*	*02/09/21 18:00*	*1*
Phenol-d5 (Surr)	*47*		*22 - 120*	*02/08/21 14:57*	*02/09/21 18:00*	*1*
p-Terphenyl-d14 (Surr)	*81*		*60 - 148*	*02/08/21 14:57*	*02/09/21 18:00*	*1*
2,4,6-Tribromophenol (Surr)	*129*	*S1+*	*41 - 120*	*02/08/21 14:57*	*02/09/21 18:00*	*1*
2-Fluorobiphenyl	*107*		*48 - 120*	*02/08/21 14:57*	*02/09/21 18:00*	*1*
2-Fluorophenol (Surr)	*65*		*35 - 120*	*02/08/21 14:57*	*02/09/21 18:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 14:19	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:19	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:19	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 14:19	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 14:19	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 14:19	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 14:19	1
delta-BHC	ND		0.050	0.010	ug/L		02/09/21 15:24	02/10/21 14:19	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 14:19	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:19	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:19	1

Client Sample ID: MW-12
Date Collected: 02/04/21 13:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-3
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 14:19	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 14:19	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 14:19	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:19	1
gamma-BHC (Lindane)	**0.015**	**J**	0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 14:19	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:19	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 14:19	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 14:19	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 14:19	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*20 - 120*	*02/09/21 15:24*	*02/10/21 14:19*	*1*
Tetrachloro-m-xylene	*124*	*S1+*	*44 - 120*	*02/09/21 15:24*	*02/10/21 14:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:34	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:34	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:34	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:34	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:34	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:34	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*39 - 121*	*02/10/21 07:35*	*02/10/21 22:34*	*1*
DCB Decachlorobiphenyl	*55*		*19 - 120*	*02/10/21 07:35*	*02/10/21 22:34*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/11/21 22:07	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/11/21 22:07	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/11/21 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*48 - 132*	*02/10/21 15:10*	*02/11/21 22:07*	*1*
2,4-Dichlorophenylacetic acid	*101*		*48 - 132*	*02/10/21 15:10*	*02/11/21 22:07*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.60		4.60	2.21	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluoropentanoic acid (PFPeA)	**0.93**	**J**	1.84	0.45	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorohexanoic acid (PFHxA)	1.84		1.84	0.53	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluoroheptanoic acid (PFHpA)	**0.32**	**J**	1.84	0.23	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorooctanoic acid (PFOA)	1.84		1.84	0.78	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorononanoic acid (PFNA)	1.84		1.84	0.25	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorodecanoic acid (PFDA)	1.84		1.84	0.29	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluoroundecanoic acid (PFUnA)	1.84		1.84	1.01	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorododecanoic acid (PFDoA)	1.84		1.84	0.51	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorotridecanoic acid (PFTriA)	1.84		1.84	1.20	ng/L		02/10/21 18:51	02/11/21 09:31	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-12

Date Collected: 02/04/21 13:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	1.84		1.84	0.67	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorobutanesulfonic acid (PFBS)	1.84		1.84	0.18	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorohexanesulfonic acid (PFHxS)	1.84		1.84	0.52	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.84		1.84	0.17	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorooctanesulfonic acid (PFOS)	1.84		1.84	0.50	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorodecanesulfonic acid (PFDS)	1.84		1.84	0.29	ng/L		02/10/21 18:51	02/11/21 09:31	1
Perfluorooctanesulfonamide (FOSA)	1.84		1.84	0.90	ng/L		02/10/21 18:51	02/11/21 09:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.60		4.60	1.10	ng/L		02/10/21 18:51	02/11/21 09:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.60		4.60	1.20	ng/L		02/10/21 18:51	02/11/21 09:31	1
6:2 FTS	**15.3**		4.60	2.30	ng/L		02/10/21 18:51	02/11/21 09:31	1
8:2 FTS	1.84		1.84	0.42	ng/L		02/10/21 18:51	02/11/21 09:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C5 PFPeA	*52*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C2 PFHxA	*91*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C4 PFHpA	*82*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C4 PFOA	*94*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C5 PFNA	*85*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C2 PFDA	*88*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C2 PFUnA	*97*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C2 PFDoA	*87*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C3 PFBS	*71*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
18O2 PFHxS	*85*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C4 PFOS	*78*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
13C8 FOSA	*75*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
d3-NMeFOSAA	*80*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
d5-NEtFOSAA	*73*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
M2-6:2 FTS	*90*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*
M2-8:2 FTS	*193*	**5+*	*25 - 150*	*02/10/21 18:51*	*02/11/21 09:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		02/08/21 10:57	02/11/21 16:14	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:14	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:14	1
Barium	**0.073**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:14	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:14	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:14	1
Calcium	**242**		0.50		mg/L		02/08/21 10:57	02/11/21 16:14	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:14	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:14	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:14	1
Iron	**0.063**		0.050		mg/L		02/08/21 10:57	02/11/21 16:14	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:14	1
Magnesium	**57.7**		0.20		mg/L		02/08/21 10:57	02/11/21 16:14	1
Manganese	**0.22**		0.0030		mg/L		02/08/21 10:57	02/11/21 16:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-12

Date Collected: 02/04/21 13:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-3

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:14	1
Potassium	**23.3**		0.50		mg/L		02/08/21 10:57	02/11/21 16:14	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:14	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:14	1
Sodium	**33.7**		1.0		mg/L		02/08/21 10:57	02/11/21 16:14	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:14	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 16:14	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 02/04/21 15:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/09/21 17:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/09/21 17:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/09/21 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/09/21 17:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/09/21 17:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/09/21 17:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/09/21 17:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/09/21 17:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/09/21 17:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/09/21 17:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/09/21 17:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/09/21 17:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/09/21 17:50	1
2-Butanone (MEK)	**1.8**	**J**	10	1.3	ug/L			02/09/21 17:50	1
2-Hexanone	ND		5.0	1.2	ug/L			02/09/21 17:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/09/21 17:50	1
Acetone	**23**		10	3.0	ug/L			02/09/21 17:50	1
Benzene	ND		1.0	0.41	ug/L			02/09/21 17:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/09/21 17:50	1
Bromoform	ND		1.0	0.26	ug/L			02/09/21 17:50	1
Bromomethane	ND		1.0	0.69	ug/L			02/09/21 17:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/09/21 17:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/09/21 17:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/09/21 17:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/09/21 17:50	1
Chloroethane	ND		1.0	0.32	ug/L			02/09/21 17:50	1
Chloroform	ND		1.0	0.34	ug/L			02/09/21 17:50	1
Chloromethane	ND		1.0	0.35	ug/L			02/09/21 17:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/09/21 17:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/09/21 17:50	1
Cyclohexane	ND		1.0	0.18	ug/L			02/09/21 17:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/09/21 17:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/09/21 17:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/09/21 17:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/09/21 17:50	1
Methyl acetate	ND		2.5	1.3	ug/L			02/09/21 17:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/09/21 17:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/09/21 17:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/09/21 17:50	1
Styrene	ND		1.0	0.73	ug/L			02/09/21 17:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/09/21 17:50	1
Toluene	ND		1.0	0.51	ug/L			02/09/21 17:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/09/21 17:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/09/21 17:50	1
Trichloroethene	ND		1.0	0.46	ug/L			02/09/21 17:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/09/21 17:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/09/21 17:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/09/21 17:50	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-180934-4

Date Collected: 02/04/21 15:45
Date Received: 02/05/21 15:35

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/09/21 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*02/09/21 17:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*02/09/21 17:50*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/09/21 17:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/09/21 18:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*02/08/21 15:07*	*02/09/21 18:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 18:30	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 18:30	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 18:30	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 18:30	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:30	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 18:30	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:30	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:30	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:30	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 18:30	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 18:30	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:30	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 18:30	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 18:30	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 18:30	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:30	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 18:30	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:30	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:30	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:30	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:30	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:30	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 18:30	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 18:30	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 18:30	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 18:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 18:30	1
Acetophenone	**0.65**	**J**	5.0	0.54	ug/L		02/08/21 14:57	02/09/21 18:30	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 18:30	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 18:30	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 18:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 18:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 18:30	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:30	1

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 02/04/21 15:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:30	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 18:30	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 18:30	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 18:30	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 18:30	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 18:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 18:30	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 18:30	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:30	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 18:30	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 18:30	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:30	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:30	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:30	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:30	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 18:30	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:30	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:30	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 18:30	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 18:30	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:30	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 18:30	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 18:30	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:30	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 18:30	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 18:30	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*95*		*46 - 120*	*02/08/21 14:57*	*02/09/21 18:30*	*1*
Phenol-d5 (Surr)	*48*		*22 - 120*	*02/08/21 14:57*	*02/09/21 18:30*	*1*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*	*02/08/21 14:57*	*02/09/21 18:30*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*41 - 120*	*02/08/21 14:57*	*02/09/21 18:30*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*02/08/21 14:57*	*02/09/21 18:30*	*1*
2-Fluorophenol (Surr)	*57*		*35 - 120*	*02/08/21 14:57*	*02/09/21 18:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 14:38	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:38	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:38	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 14:38	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 14:38	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 14:38	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 14:38	1
delta-BHC	**0.010**	**J B**	0.050	0.010	ug/L		02/09/21 15:24	02/10/21 14:38	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 14:38	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:38	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:38	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 02/04/21 15:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-4

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 14:38	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 14:38	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 14:38	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:38	1
gamma-BHC (Lindane)	**0.0094**	**J**	0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 14:38	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:38	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 14:38	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 14:38	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 14:38	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*20 - 120*	*02/09/21 15:24*	*02/10/21 14:38*	*1*
Tetrachloro-m-xylene	*105*		*44 - 120*	*02/09/21 15:24*	*02/10/21 14:38*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:47	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:47	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:47	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:47	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:47	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:47	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*39 - 121*	*02/10/21 07:35*	*02/10/21 22:47*	*1*
DCB Decachlorobiphenyl	*67*		*19 - 120*	*02/10/21 07:35*	*02/10/21 22:47*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/11/21 22:36	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/11/21 22:36	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/11/21 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*75*		*48 - 132*	*02/10/21 15:10*	*02/11/21 22:36*	*1*
2,4-Dichlorophenylacetic acid	*65*		*48 - 132*	*02/10/21 15:10*	*02/11/21 22:36*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.55		4.55	2.19	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluoropentanoic acid (PFPeA)	1.82		1.82	0.45	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorohexanoic acid (PFHxA)	1.82		1.82	0.53	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluoroheptanoic acid (PFHpA)	1.82		1.82	0.23	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorooctanoic acid (PFOA)	1.82		1.82	0.77	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorononanoic acid (PFNA)	1.82		1.82	0.25	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorodecanoic acid (PFDA)	1.82		1.82	0.28	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluoroundecanoic acid (PFUnA)	1.82		1.82	1.00	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorododecanoic acid (PFDoA)	1.82		1.82	0.50	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorotridecanoic acid (PFTriA)	1.82		1.82	1.18	ng/L		02/10/21 18:51	02/11/21 09:40	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 02/04/21 15:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-4

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	1.82		1.82	0.66	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorobutanesulfonic acid (PFBS)	1.82		1.82	0.18	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorohexanesulfonic acid (PFHxS)	1.82		1.82	0.52	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.82		1.82	0.17	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorooctanesulfonic acid (PFOS)	1.82		1.82	0.49	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorodecanesulfonic acid (PFDS)	1.82		1.82	0.29	ng/L		02/10/21 18:51	02/11/21 09:40	1
Perfluorooctanesulfonamide (FOSA)	1.82		1.82	0.89	ng/L		02/10/21 18:51	02/11/21 09:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.55		4.55	1.09	ng/L		02/10/21 18:51	02/11/21 09:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.55		4.55	1.18	ng/L		02/10/21 18:51	02/11/21 09:40	1
6:2 FTS	4.55		4.55	2.28	ng/L		02/10/21 18:51	02/11/21 09:40	1
8:2 FTS	1.82		1.82	0.42	ng/L		02/10/21 18:51	02/11/21 09:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C5 PFPeA	*81*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C2 PFHxA	*103*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C4 PFHpA	*101*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C4 PFOA	*106*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C5 PFNA	*107*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C2 PFDA	*104*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C2 PFUnA	*108*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C2 PFDoA	*103*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C2 PFTeDA	*98*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C3 PFBS	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
18O2 PFHxS	*96*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C4 PFOS	*96*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
13C8 FOSA	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
d3-NMeFOSAA	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
d5-NEtFOSAA	*80*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
M2-6:2 FTS	*95*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*
M2-8:2 FTS	*98*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		02/08/21 10:57	02/11/21 16:18	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:18	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:18	1
Barium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:18	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:18	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:18	1
Calcium	ND		0.50		mg/L		02/08/21 10:57	02/11/21 16:18	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:18	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:18	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:18	1
Iron	ND		0.050		mg/L		02/08/21 10:57	02/11/21 16:18	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:18	1
Magnesium	ND		0.20		mg/L		02/08/21 10:57	02/11/21 16:18	1
Manganese	ND		0.0030		mg/L		02/08/21 10:57	02/11/21 16:18	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 02/04/21 15:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-4
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:18	1
Potassium	ND		0.50		mg/L		02/08/21 10:57	02/11/21 16:18	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:18	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:18	1
Sodium	ND		1.0		mg/L		02/08/21 10:57	02/11/21 16:18	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:18	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 16:18	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:15	1

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: MW-8D

Date Collected: 02/04/21 09:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 14:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 14:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 14:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 14:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 14:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 14:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 14:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 14:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 14:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 14:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 14:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 14:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 14:06	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 14:06	1
Acetone	**3.9**	**J**	10	3.0	ug/L			02/08/21 14:06	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 14:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 14:06	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 14:06	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 14:06	1
Carbon disulfide	**0.62**	**J**	1.0	0.19	ug/L			02/08/21 14:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 14:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 14:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 14:06	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 14:06	1
Chloroform	**1.1**		1.0	0.34	ug/L			02/08/21 14:06	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 14:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 14:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 14:06	1
Cyclohexane	**0.60**	**J**	1.0	0.18	ug/L			02/08/21 14:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 14:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 14:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 14:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 14:06	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 14:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 14:06	1
Methylcyclohexane	**3.7**		1.0	0.16	ug/L			02/08/21 14:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 14:06	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 14:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 14:06	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 14:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 14:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 14:06	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 14:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 14:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 14:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 14:06	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8D

Date Collected: 02/04/21 09:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/08/21 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*02/08/21 14:06*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*02/08/21 14:06*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*02/08/21 14:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/09/21 19:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*02/08/21 15:07*	*02/09/21 19:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 18:59	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 18:59	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 18:59	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 18:59	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:59	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 18:59	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:59	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:59	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:59	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 18:59	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 18:59	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:59	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 18:59	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 18:59	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 18:59	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:59	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 18:59	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:59	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:59	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 18:59	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:59	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:59	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 18:59	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 18:59	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 18:59	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 18:59	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 18:59	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 18:59	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 18:59	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 18:59	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 18:59	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:59	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:59	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 18:59	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:59	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 18:59	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 18:59	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8D

Date Collected: 02/04/21 09:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:59	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 18:59	1
Butyl benzyl phthalate	**1.0**	**J**	5.0	1.0	ug/L		02/08/21 14:57	02/09/21 18:59	1
Caprolactam	**8.0**		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 18:59	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 18:59	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 18:59	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 18:59	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 18:59	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:59	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 18:59	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 18:59	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:59	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 18:59	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 18:59	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:59	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 18:59	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:59	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 18:59	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 18:59	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 18:59	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 18:59	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 18:59	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 18:59	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 18:59	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 18:59	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 18:59	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 18:59	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*102*		*46 - 120*	*02/08/21 14:57*	*02/09/21 18:59*	*1*
Phenol-d5 (Surr)	*47*		*22 - 120*	*02/08/21 14:57*	*02/09/21 18:59*	*1*
p-Terphenyl-d14 (Surr)	*76*		*60 - 148*	*02/08/21 14:57*	*02/09/21 18:59*	*1*
2,4,6-Tribromophenol (Surr)	*111*		*41 - 120*	*02/08/21 14:57*	*02/09/21 18:59*	*1*
2-Fluorobiphenyl	*100*		*48 - 120*	*02/08/21 14:57*	*02/09/21 18:59*	*1*
2-Fluorophenol (Surr)	*65*		*35 - 120*	*02/08/21 14:57*	*02/09/21 18:59*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 14:57	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:57	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:57	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 14:57	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 14:57	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 14:57	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 14:57	1
delta-BHC	ND		0.050	0.010	ug/L		02/09/21 15:24	02/10/21 14:57	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 14:57	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:57	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:57	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8D
Date Collected: 02/04/21 09:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-5
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 14:57	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 14:57	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 14:57	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 14:57	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 14:57	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 14:57	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 14:57	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 14:57	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 14:57	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*20 - 120*	*02/09/21 15:24*	*02/10/21 14:57*	*1*
Tetrachloro-m-xylene	*96*		*44 - 120*	*02/09/21 15:24*	*02/10/21 14:57*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:59	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:59	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:59	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:59	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 22:59	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:59	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*39 - 121*	*02/10/21 07:35*	*02/10/21 22:59*	*1*
DCB Decachlorobiphenyl	*34*		*19 - 120*	*02/10/21 07:35*	*02/10/21 22:59*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/11/21 23:06	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/11/21 23:06	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/11/21 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*48*		*48 - 132*	*02/10/21 15:10*	*02/11/21 23:06*	*1*
2,4-Dichlorophenylacetic acid	*89*		*48 - 132*	*02/10/21 15:10*	*02/11/21 23:06*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.72		4.72	2.27	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluoropentanoic acid (PFPeA)	1.89		1.89	0.46	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorohexanoic acid (PFHxA)	1.89		1.89	0.55	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluoroheptanoic acid (PFHpA)	1.89		1.89	0.24	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorooctanoic acid (PFOA)	1.89		1.89	0.80	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorononanoic acid (PFNA)	1.89		1.89	0.25	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorodecanoic acid (PFDA)	1.89		1.89	0.29	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluoroundecanoic acid (PFUnA)	1.89		1.89	1.04	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorododecanoic acid (PFDoA)	1.89		1.89	0.52	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorotridecanoic acid (PFTriA)	1.89		1.89	1.23	ng/L		02/10/21 18:51	02/11/21 09:50	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8D

Date Collected: 02/04/21 09:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-5

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	1.89		1.89	0.69	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorobutanesulfonic acid (PFBS)	1.89		1.89	0.19	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorohexanesulfonic acid (PFHxS)	1.89		1.89	0.54	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.89		1.89	0.18	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorooctanesulfonic acid (PFOS)	1.89		1.89	0.51	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorodecanesulfonic acid (PFDS)	1.89		1.89	0.30	ng/L		02/10/21 18:51	02/11/21 09:50	1
Perfluorooctanesulfonamide (FOSA)	1.89		1.89	0.92	ng/L		02/10/21 18:51	02/11/21 09:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.72		4.72	1.13	ng/L		02/10/21 18:51	02/11/21 09:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.72		4.72	1.23	ng/L		02/10/21 18:51	02/11/21 09:50	1
6:2 FTS	4.72		4.72	2.36	ng/L		02/10/21 18:51	02/11/21 09:50	1
8:2 FTS	1.89		1.89	0.43	ng/L		02/10/21 18:51	02/11/21 09:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C5 PFPeA	*53*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C2 PFHxA	*85*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C4 PFHpA	*77*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C4 PFOA	*89*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C5 PFNA	*80*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C2 PFDA	*83*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C2 PFUnA	*73*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C2 PFDoA	*67*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C3 PFBS	*70*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
18O2 PFHxS	*77*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C4 PFOS	*73*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
13C8 FOSA	*70*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
d3-NMeFOSAA	*45*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
d5-NEtFOSAA	*57*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
M2-6:2 FTS	*90*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*
M2-8:2 FTS	*142*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.8**		0.20		mg/L		02/08/21 10:57	02/11/21 16:22	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:22	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:22	1
Barium	**0.073**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:22	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:22	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:22	1
Calcium	**114**		0.50		mg/L		02/08/21 10:57	02/11/21 16:22	1
Chromium	**0.0065**		0.0040		mg/L		02/08/21 10:57	02/11/21 16:22	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:22	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:22	1
Iron	**4.2**		0.050		mg/L		02/08/21 10:57	02/11/21 16:22	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:22	1
Magnesium	**48.3**		0.20		mg/L		02/08/21 10:57	02/11/21 16:22	1
Manganese	**0.096**		0.0030		mg/L		02/08/21 10:57	02/11/21 16:22	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8D

Date Collected: 02/04/21 09:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-5

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**0.011**		0.010		mg/L		02/08/21 10:57	02/11/21 16:22	1
Potassium	**10.9**		0.50		mg/L		02/08/21 10:57	02/11/21 16:22	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:22	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:22	1
Sodium	**160**		1.0		mg/L		02/08/21 10:57	02/11/21 16:22	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:22	1
Vanadium	**0.0077**		0.0050		mg/L		02/08/21 10:57	02/11/21 16:22	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:16	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1D

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 14:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 14:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 14:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 14:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 14:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 14:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 14:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 14:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 14:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 14:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 14:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 14:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 14:30	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 14:30	1
Acetone	ND		10	3.0	ug/L			02/08/21 14:30	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 14:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 14:30	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 14:30	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 14:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/08/21 14:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 14:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 14:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 14:30	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 14:30	1
Chloroform	ND		1.0	0.34	ug/L			02/08/21 14:30	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 14:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 14:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 14:30	1
Cyclohexane	**4.1**		1.0	0.18	ug/L			02/08/21 14:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 14:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 14:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 14:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 14:30	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 14:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 14:30	1
Methylcyclohexane	**3.9**		1.0	0.16	ug/L			02/08/21 14:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 14:30	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 14:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 14:30	1
Toluene	**1.2**		1.0	0.51	ug/L			02/08/21 14:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 14:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 14:30	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 14:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 14:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 14:30	1
Xylenes, Total	**4.2**		2.0	0.66	ug/L			02/08/21 14:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1D

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/08/21 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*02/08/21 14:30*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/08/21 14:30*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*02/08/21 14:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/09/21 19:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*02/08/21 15:07*	*02/09/21 19:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 19:29	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 19:29	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 19:29	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 19:29	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 19:29	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 19:29	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 19:29	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 19:29	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:29	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 19:29	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 19:29	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:29	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 19:29	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 19:29	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 19:29	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:29	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 19:29	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 19:29	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 19:29	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 19:29	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 19:29	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 19:29	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 19:29	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 19:29	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 19:29	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 19:29	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 19:29	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 19:29	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 19:29	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 19:29	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 19:29	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 19:29	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 19:29	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 19:29	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 19:29	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 19:29	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 19:29	1

Client Sample ID: MW-1D
Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:29	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 19:29	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 19:29	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 19:29	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 19:29	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 19:29	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 19:29	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 19:29	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 19:29	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 19:29	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 19:29	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 19:29	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:29	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 19:29	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 19:29	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 19:29	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 19:29	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 19:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 19:29	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 19:29	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 19:29	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 19:29	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 19:29	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 19:29	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 19:29	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 19:29	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 19:29	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*98*		*46 - 120*	*02/08/21 14:57*	*02/09/21 19:29*	*1*
Phenol-d5 (Surr)	*49*		*22 - 120*	*02/08/21 14:57*	*02/09/21 19:29*	*1*
p-Terphenyl-d14 (Surr)	*69*		*60 - 148*	*02/08/21 14:57*	*02/09/21 19:29*	*1*
2,4,6-Tribromophenol (Surr)	*126*	*S1+*	*41 - 120*	*02/08/21 14:57*	*02/09/21 19:29*	*1*
2-Fluorobiphenyl	*101*		*48 - 120*	*02/08/21 14:57*	*02/09/21 19:29*	*1*
2-Fluorophenol (Surr)	*62*		*35 - 120*	*02/08/21 14:57*	*02/09/21 19:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 15:17	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:17	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:17	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 15:17	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 15:17	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 15:17	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 15:17	1
delta-BHC	ND		0.050	0.010	ug/L		02/09/21 15:24	02/10/21 15:17	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 15:17	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:17	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:17	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1D

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-6

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 15:17	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 15:17	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 15:17	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:17	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 15:17	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:17	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 15:17	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 15:17	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 15:17	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*20 - 120*	*02/09/21 15:24*	*02/10/21 15:17*	*1*
Tetrachloro-m-xylene	*88*		*44 - 120*	*02/09/21 15:24*	*02/10/21 15:17*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:11	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:11	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:11	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:11	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:11	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 23:11	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*39 - 121*	*02/10/21 07:35*	*02/10/21 23:11*	*1*
DCB Decachlorobiphenyl	*36*		*19 - 120*	*02/10/21 07:35*	*02/10/21 23:11*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/12/21 00:05	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/12/21 00:05	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/12/21 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*87*		*48 - 132*	*02/10/21 15:10*	*02/12/21 00:05*	*1*
2,4-Dichlorophenylacetic acid	*75*		*48 - 132*	*02/10/21 15:10*	*02/12/21 00:05*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.71		4.71	2.26	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluoropentanoic acid (PFPeA)	1.88		1.88	0.46	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorohexanoic acid (PFHxA)	1.88		1.88	0.55	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluoroheptanoic acid (PFHpA)	1.88		1.88	0.24	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorooctanoic acid (PFOA)	1.88		1.88	0.80	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorononanoic acid (PFNA)	1.88		1.88	0.25	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorodecanoic acid (PFDA)	1.88		1.88	0.29	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluoroundecanoic acid (PFUnA)	1.88		1.88	1.04	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorododecanoic acid (PFDoA)	1.88		1.88	0.52	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorotridecanoic acid (PFTriA)	1.88		1.88	1.23	ng/L		02/10/21 18:51	02/11/21 09:59	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1D

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-6

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	1.88		1.88	0.69	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorobutanesulfonic acid (PFBS)	1.88		1.88	0.19	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorohexanesulfonic acid (PFHxS)	1.88		1.88	0.54	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.88		1.88	0.18	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorooctanesulfonic acid (PFOS)	**0.72**	**J I**	1.88	0.51	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorodecanesulfonic acid (PFDS)	1.88		1.88	0.30	ng/L		02/10/21 18:51	02/11/21 09:59	1
Perfluorooctanesulfonamide (FOSA)	1.88		1.88	0.92	ng/L		02/10/21 18:51	02/11/21 09:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.71		4.71	1.13	ng/L		02/10/21 18:51	02/11/21 09:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.71		4.71	1.23	ng/L		02/10/21 18:51	02/11/21 09:59	1
6:2 FTS	4.71		4.71	2.36	ng/L		02/10/21 18:51	02/11/21 09:59	1
8:2 FTS	1.88		1.88	0.43	ng/L		02/10/21 18:51	02/11/21 09:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C5 PFPeA	*69*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C2 PFHxA	*99*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C4 PFHpA	*96*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C4 PFOA	*103*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C5 PFNA	*95*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C2 PFDA	*99*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C2 PFUnA	*109*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C2 PFDoA	*103*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C2 PFTeDA	*80*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C3 PFBS	*83*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
18O2 PFHxS	*96*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C4 PFOS	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
13C8 FOSA	*87*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
d3-NMeFOSAA	*97*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
d5-NEtFOSAA	*90*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
M2-6:2 FTS	*101*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*
M2-8:2 FTS	*140*		*25 - 150*	*02/10/21 18:51*	*02/11/21 09:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		02/08/21 10:57	02/11/21 16:25	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:25	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:25	1
Barium	**0.015**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:25	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:25	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:25	1
Calcium	**68.7**		0.50		mg/L		02/08/21 10:57	02/11/21 16:25	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:25	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:25	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:25	1
Iron	**0.16**		0.050		mg/L		02/08/21 10:57	02/11/21 16:25	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:25	1
Magnesium	**40.0**		0.20		mg/L		02/08/21 10:57	02/11/21 16:25	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1D
Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-6
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.013**		0.0030		mg/L		02/08/21 10:57	02/11/21 16:25	1
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:25	1
Potassium	**5.2**		0.50		mg/L		02/08/21 10:57	02/11/21 16:25	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:25	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:25	1
Sodium	**183**		1.0		mg/L		02/08/21 10:57	02/11/21 16:25	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:25	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 16:25	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:17	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-9
Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 14:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 14:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 14:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 14:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 14:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 14:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 14:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 14:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 14:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 14:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 14:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 14:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 14:54	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 14:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 14:54	1
Acetone	**4.3**	**J**	10	3.0	ug/L			02/08/21 14:54	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 14:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 14:54	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 14:54	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 14:54	1
Carbon disulfide	**0.19**	**J**	1.0	0.19	ug/L			02/08/21 14:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 14:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 14:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 14:54	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 14:54	1
Chloroform	ND		1.0	0.34	ug/L			02/08/21 14:54	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 14:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 14:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 14:54	1
Cyclohexane	ND		1.0	0.18	ug/L			02/08/21 14:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 14:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 14:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 14:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 14:54	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 14:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 14:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/08/21 14:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 14:54	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 14:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 14:54	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 14:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 14:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 14:54	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 14:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 14:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 14:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 14:54	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-9

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/08/21 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*02/08/21 14:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*02/08/21 14:54*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*02/08/21 14:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/10/21 15:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*02/08/21 15:07*	*02/10/21 15:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 19:59	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 19:59	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 19:59	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 19:59	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 19:59	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 19:59	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 19:59	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 19:59	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:59	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 19:59	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 19:59	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:59	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 19:59	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 19:59	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 19:59	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:59	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 19:59	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 19:59	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 19:59	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 19:59	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 19:59	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 19:59	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 19:59	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 19:59	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 19:59	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 19:59	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 19:59	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 19:59	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 19:59	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 19:59	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 19:59	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 19:59	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 19:59	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 19:59	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 19:59	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 19:59	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 19:59	1

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: MW-9
Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:59	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 19:59	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 19:59	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 19:59	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 19:59	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 19:59	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 19:59	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 19:59	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 19:59	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 19:59	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 19:59	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 19:59	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 19:59	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 19:59	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 19:59	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 19:59	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 19:59	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 19:59	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 19:59	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 19:59	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 19:59	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 19:59	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 19:59	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 19:59	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 19:59	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 19:59	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 19:59	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*102*		*46 - 120*	*02/08/21 14:57*	*02/09/21 19:59*	*1*
Phenol-d5 (Surr)	*46*		*22 - 120*	*02/08/21 14:57*	*02/09/21 19:59*	*1*
p-Terphenyl-d14 (Surr)	*80*		*60 - 148*	*02/08/21 14:57*	*02/09/21 19:59*	*1*
2,4,6-Tribromophenol (Surr)	*123*	*S1+*	*41 - 120*	*02/08/21 14:57*	*02/09/21 19:59*	*1*
2-Fluorobiphenyl	*98*		*48 - 120*	*02/08/21 14:57*	*02/09/21 19:59*	*1*
2-Fluorophenol (Surr)	*63*		*35 - 120*	*02/08/21 14:57*	*02/09/21 19:59*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 15:36	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:36	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:36	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 15:36	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 15:36	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 15:36	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 15:36	1
delta-BHC	**0.014**	**J B**	0.050	0.010	ug/L		02/09/21 15:24	02/10/21 15:36	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 15:36	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:36	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:36	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-9

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-7

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 15:36	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 15:36	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 15:36	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:36	1
gamma-BHC (Lindane)	**0.0099**	**J**	0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 15:36	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:36	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 15:36	1
Heptachlor epoxide	**0.012**	**J**	0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 15:36	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 15:36	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*20 - 120*	*02/09/21 15:24*	*02/10/21 15:36*	*1*
Tetrachloro-m-xylene	*92*		*44 - 120*	*02/09/21 15:24*	*02/10/21 15:36*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:24	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:24	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:24	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:24	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:24	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 23:24	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*39 - 121*	*02/10/21 07:35*	*02/10/21 23:24*	*1*
DCB Decachlorobiphenyl	*34*		*19 - 120*	*02/10/21 07:35*	*02/10/21 23:24*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/12/21 00:35	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/12/21 00:35	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/12/21 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*32*	*S1-*	*48 - 132*	*02/10/21 15:10*	*02/12/21 00:35*	*1*
2,4-Dichlorophenylacetic acid	*26*	*S1-*	*48 - 132*	*02/10/21 15:10*	*02/12/21 00:35*	*1*

Method: 8151A - Herbicides (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	H	0.48	0.065	ug/L		02/15/21 09:22	02/18/21 10:33	1
Silvex (2,4,5-TP)	ND	H	0.48	0.048	ug/L		02/15/21 09:22	02/18/21 10:33	1
2,4-D	ND	H	0.48	0.16	ug/L		02/15/21 09:22	02/18/21 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*51*		*48 - 132*	*02/15/21 09:22*	*02/18/21 10:33*	*1*
2,4-Dichlorophenylacetic acid	*45*	*S1-*	*48 - 132*	*02/15/21 09:22*	*02/18/21 10:33*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: MW-9

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-7

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.67		4.67	2.24	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluoropentanoic acid (PFPeA)	**0.57**	**J**	1.87	0.46	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorohexanoic acid (PFHxA)	1.87		1.87	0.54	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluoroheptanoic acid (PFHpA)	1.87		1.87	0.23	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorooctanoic acid (PFOA)	1.87		1.87	0.79	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorononanoic acid (PFNA)	1.87		1.87	0.25	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorodecanoic acid (PFDA)	1.87		1.87	0.29	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluoroundecanoic acid (PFUnA)	1.87		1.87	1.03	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorododecanoic acid (PFDoA)	1.87		1.87	0.51	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorotridecanoic acid (PFTriA)	1.87		1.87	1.21	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorotetradecanoic acid (PFTeA)	1.87		1.87	0.68	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorobutanesulfonic acid (PFBS)	1.87		1.87	0.19	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorohexanesulfonic acid (PFHxS)	1.87		1.87	0.53	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.87		1.87	0.18	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorooctanesulfonic acid (PFOS)	**0.99**	**J I**	1.87	0.50	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorodecanesulfonic acid (PFDS)	1.87		1.87	0.30	ng/L		02/10/21 18:51	02/11/21 10:09	1
Perfluorooctanesulfonamide (FOSA)	**0.95**	**J**	1.87	0.92	ng/L		02/10/21 18:51	02/11/21 10:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.67		4.67	1.12	ng/L		02/10/21 18:51	02/11/21 10:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.67		4.67	1.21	ng/L		02/10/21 18:51	02/11/21 10:09	1
6:2 FTS	**2.80**	**J**	4.67	2.33	ng/L		02/10/21 18:51	02/11/21 10:09	1
8:2 FTS	1.87		1.87	0.43	ng/L		02/10/21 18:51	02/11/21 10:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C5 PFPeA	*69*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C2 PFHxA	*112*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C4 PFHpA	*103*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C4 PFOA	*120*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C5 PFNA	*108*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C2 PFDA	*115*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C2 PFUnA	*102*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C2 PFDoA	*107*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C2 PFTeDA	*108*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C3 PFBS	*87*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
18O2 PFHxS	*103*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C4 PFOS	*94*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
13C8 FOSA	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
d3-NMeFOSAA	*99*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
d5-NEtFOSAA	*84*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
M2-6:2 FTS	*123*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*
M2-8:2 FTS	*171*	**5+*	*25 - 150*	*02/10/21 18:51*	*02/11/21 10:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.1**		0.20		mg/L		02/08/21 10:57	02/11/21 16:29	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:29	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:29	1

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: MW-9

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-7

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.070**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:29	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:29	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:29	1
Calcium	**135**		0.50		mg/L		02/08/21 10:57	02/11/21 16:29	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:29	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:29	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:29	1
Iron	**1.5**		0.050		mg/L		02/08/21 10:57	02/11/21 16:29	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:29	1
Magnesium	**48.5**		0.20		mg/L		02/08/21 10:57	02/11/21 16:29	1
Manganese	**0.47**		0.0030		mg/L		02/08/21 10:57	02/11/21 16:29	1
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:29	1
Potassium	**9.3**		0.50		mg/L		02/08/21 10:57	02/11/21 16:29	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:29	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:29	1
Sodium	**18.5**		1.0		mg/L		02/08/21 10:57	02/11/21 16:29	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:29	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 16:29	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:19	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8
Date Collected: 02/04/21 10:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 15:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 15:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 15:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 15:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 15:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 15:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 15:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 15:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 15:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 15:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 15:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 15:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 15:18	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 15:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 15:18	1
Acetone	**7.3**	**J**	10	3.0	ug/L			02/08/21 15:18	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 15:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 15:18	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 15:18	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 15:18	1
Carbon disulfide	**1.2**		1.0	0.19	ug/L			02/08/21 15:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 15:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 15:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 15:18	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 15:18	1
Chloroform	ND		1.0	0.34	ug/L			02/08/21 15:18	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 15:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 15:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 15:18	1
Cyclohexane	ND		1.0	0.18	ug/L			02/08/21 15:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 15:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 15:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 15:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 15:18	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 15:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 15:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/08/21 15:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 15:18	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 15:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 15:18	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 15:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 15:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 15:18	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 15:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 15:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 15:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 15:18	1

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: MW-8

Date Collected: 02/04/21 10:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/08/21 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*02/08/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*02/08/21 15:18*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*02/08/21 15:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/09/21 20:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*02/08/21 15:07*	*02/09/21 20:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 20:28	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 20:28	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 20:28	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 20:28	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 20:28	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 20:28	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 20:28	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 20:28	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 20:28	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 20:28	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 20:28	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 20:28	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 20:28	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 20:28	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 20:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 20:28	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 20:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 20:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 20:28	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 20:28	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 20:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 20:28	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 20:28	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 20:28	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 20:28	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 20:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 20:28	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 20:28	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 20:28	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 20:28	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 20:28	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 20:28	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 20:28	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 20:28	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 20:28	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 20:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 20:28	1

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: MW-8
Date Collected: 02/04/21 10:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 20:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 20:28	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 20:28	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 20:28	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 20:28	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 20:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 20:28	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 20:28	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 20:28	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 20:28	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 20:28	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 20:28	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 20:28	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 20:28	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 20:28	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 20:28	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 20:28	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 20:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 20:28	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 20:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 20:28	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 20:28	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 20:28	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 20:28	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 20:28	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 20:28	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 20:28	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*104*		*46 - 120*	*02/08/21 14:57*	*02/09/21 20:28*	*1*
Phenol-d5 (Surr)	*54*		*22 - 120*	*02/08/21 14:57*	*02/09/21 20:28*	*1*
p-Terphenyl-d14 (Surr)	*84*		*60 - 148*	*02/08/21 14:57*	*02/09/21 20:28*	*1*
2,4,6-Tribromophenol (Surr)	*130*	*S1+*	*41 - 120*	*02/08/21 14:57*	*02/09/21 20:28*	*1*
2-Fluorobiphenyl	*102*		*48 - 120*	*02/08/21 14:57*	*02/09/21 20:28*	*1*
2-Fluorophenol (Surr)	*66*		*35 - 120*	*02/08/21 14:57*	*02/09/21 20:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 15:56	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:56	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:56	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 15:56	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 15:56	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 15:56	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 15:56	1
delta-BHC	**0.020**	**J B**	0.050	0.010	ug/L		02/09/21 15:24	02/10/21 15:56	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 15:56	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:56	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:56	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8

Date Collected: 02/04/21 10:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-8

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 15:56	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 15:56	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 15:56	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 15:56	1
gamma-BHC (Lindane)	**0.014**	**J**	0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 15:56	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 15:56	1
Heptachlor	**0.013**	**J**	0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 15:56	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 15:56	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 15:56	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*20 - 120*	*02/09/21 15:24*	*02/10/21 15:56*	*1*
Tetrachloro-m-xylene	*105*		*44 - 120*	*02/09/21 15:24*	*02/10/21 15:56*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:36	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:36	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:36	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:36	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 23:36	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 23:36	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*39 - 121*	*02/10/21 07:35*	*02/10/21 23:36*	*1*
DCB Decachlorobiphenyl	*38*		*19 - 120*	*02/10/21 07:35*	*02/10/21 23:36*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		5.0	0.68	ug/L		02/10/21 15:10	02/12/21 01:04	1
Silvex (2,4,5-TP)	ND		5.0	0.50	ug/L		02/10/21 15:10	02/12/21 01:04	1
2,4-D	ND		5.0	1.7	ug/L		02/10/21 15:10	02/12/21 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*55*		*48 - 132*	*02/10/21 15:10*	*02/12/21 01:04*	*1*
2,4-Dichlorophenylacetic acid	*57*		*48 - 132*	*02/10/21 15:10*	*02/12/21 01:04*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.57		4.57	2.19	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluoropentanoic acid (PFPeA)	**1.04**	**J**	1.83	0.45	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorohexanoic acid (PFHxA)	**1.30**	**J**	1.83	0.53	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluoroheptanoic acid (PFHpA)	**0.66**	**J**	1.83	0.23	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorooctanoic acid (PFOA)	1.83		1.83	0.78	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorononanoic acid (PFNA)	1.83		1.83	0.25	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorodecanoic acid (PFDA)	1.83		1.83	0.28	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluoroundecanoic acid (PFUnA)	1.83		1.83	1.01	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorododecanoic acid (PFDoA)	1.83		1.83	0.50	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorotridecanoic acid (PFTriA)	1.83		1.83	1.19	ng/L		02/10/21 18:51	02/11/21 10:18	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8

Date Collected: 02/04/21 10:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-8

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	**0.68**	**J I**	1.83	0.67	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorobutanesulfonic acid (PFBS)	1.83		1.83	0.18	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorohexanesulfonic acid (PFHxS)	1.83		1.83	0.52	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.83		1.83	0.17	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorooctanesulfonic acid (PFOS)	**0.54**	**J**	1.83	0.49	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorodecanesulfonic acid (PFDS)	1.83		1.83	0.29	ng/L		02/10/21 18:51	02/11/21 10:18	1
Perfluorooctanesulfonamide (FOSA)	1.83		1.83	0.90	ng/L		02/10/21 18:51	02/11/21 10:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.57		4.57	1.10	ng/L		02/10/21 18:51	02/11/21 10:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.57		4.57	1.19	ng/L		02/10/21 18:51	02/11/21 10:18	1
6:2 FTS	**30.7**		4.57	2.28	ng/L		02/10/21 18:51	02/11/21 10:18	1
8:2 FTS	1.83		1.83	0.42	ng/L		02/10/21 18:51	02/11/21 10:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C5 PFPeA	*58*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C2 PFHxA	*97*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C4 PFHpA	*81*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C4 PFOA	*95*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C5 PFNA	*90*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C2 PFDA	*85*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C2 PFUnA	*84*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C2 PFDoA	*74*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C2 PFTeDA	*88*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C3 PFBS	*77*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
18O2 PFHxS	*87*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C4 PFOS	*78*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
13C8 FOSA	*75*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
d3-NMeFOSAA	*64*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
d5-NEtFOSAA	*59*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
M2-6:2 FTS	*100*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		02/08/21 10:57	02/11/21 16:33	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:33	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:33	1
Barium	**0.094**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:33	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:33	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:33	1
Calcium	**191**		0.50		mg/L		02/08/21 10:57	02/11/21 16:33	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:33	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:33	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:33	1
Iron	**0.47**		0.050		mg/L		02/08/21 10:57	02/11/21 16:33	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:33	1
Magnesium	**61.5**		0.20		mg/L		02/08/21 10:57	02/11/21 16:33	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8

Date Collected: 02/04/21 10:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-8

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.19**		0.0030		mg/L		02/08/21 10:57	02/11/21 16:33	1
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:33	1
Potassium	**14.3**		0.50		mg/L		02/08/21 10:57	02/11/21 16:33	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:33	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:33	1
Sodium	**145**		1.0		mg/L		02/08/21 10:57	02/11/21 16:33	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:33	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 16:33	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:20	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1
Date Collected: 02/04/21 14:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 15:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 15:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 15:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 15:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 15:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 15:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 15:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 15:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 15:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 15:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 15:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 15:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 15:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 15:42	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 15:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 15:42	1
Acetone	ND		10	3.0	ug/L			02/08/21 15:42	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 15:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 15:42	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 15:42	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 15:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/08/21 15:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 15:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 15:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 15:42	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 15:42	1
Chloroform	ND		1.0	0.34	ug/L			02/08/21 15:42	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 15:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 15:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 15:42	1
Cyclohexane	ND		1.0	0.18	ug/L			02/08/21 15:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 15:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 15:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 15:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 15:42	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 15:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 15:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/08/21 15:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 15:42	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 15:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 15:42	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 15:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 15:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 15:42	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 15:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 15:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 15:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 15:42	1

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-180934-1

Client Sample ID: MW-1

Date Collected: 02/04/21 14:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/08/21 15:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/08/21 15:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*02/08/21 15:42*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/08/21 15:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	F1	1.0	0.50	ug/L		02/08/21 15:07	02/09/21 16:14	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*26*		*15 - 110*	*02/08/21 15:07*	*02/09/21 16:14*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 15:31	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 15:31	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 15:31	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 15:31	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 15:31	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 15:31	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 15:31	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 15:31	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 15:31	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 15:31	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 15:31	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 15:31	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 15:31	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 15:31	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 15:31	1
3,3'-Dichlorobenzidine	ND	F2	5.0	0.40	ug/L		02/08/21 14:57	02/09/21 15:31	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 15:31	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 15:31	1
4-Bromophenyl phenyl ether	ND	F2	5.0	0.45	ug/L		02/08/21 14:57	02/09/21 15:31	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 15:31	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 15:31	1
4-Chlorophenyl phenyl ether	ND	F2	5.0	0.35	ug/L		02/08/21 14:57	02/09/21 15:31	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 15:31	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 15:31	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 15:31	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 15:31	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 15:31	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 15:31	1
Anthracene	ND	F2	5.0	0.28	ug/L		02/08/21 14:57	02/09/21 15:31	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 15:31	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 15:31	1
Benzo[a]anthracene	ND	F2	5.0	0.36	ug/L		02/08/21 14:57	02/09/21 15:31	1
Benzo[a]pyrene	ND	F2	5.0	0.47	ug/L		02/08/21 14:57	02/09/21 15:31	1
Benzo[b]fluoranthene	ND	F2	5.0	0.34	ug/L		02/08/21 14:57	02/09/21 15:31	1
Benzo[g,h,i]perylene	ND	F2	5.0	0.35	ug/L		02/08/21 14:57	02/09/21 15:31	1
Benzo[k]fluoranthene	ND	F2	5.0	0.73	ug/L		02/08/21 14:57	02/09/21 15:31	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 15:31	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1
Date Collected: 02/04/21 14:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-9
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 15:31	1
Bis(2-ethylhexyl) phthalate	ND	F2	5.0	2.2	ug/L		02/08/21 14:57	02/09/21 15:31	1
Butyl benzyl phthalate	ND	F2	5.0	1.0	ug/L		02/08/21 14:57	02/09/21 15:31	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 15:31	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 15:31	1
Chrysene	ND	F2	5.0	0.33	ug/L		02/08/21 14:57	02/09/21 15:31	1
Dibenz(a,h)anthracene	ND	F2	5.0	0.42	ug/L		02/08/21 14:57	02/09/21 15:31	1
Di-n-butyl phthalate	ND	F2	5.0	0.31	ug/L		02/08/21 14:57	02/09/21 15:31	1
Di-n-octyl phthalate	ND	F2	5.0	0.47	ug/L		02/08/21 14:57	02/09/21 15:31	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 15:31	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 15:31	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 15:31	1
Fluoranthene	ND	F2	5.0	0.40	ug/L		02/08/21 14:57	02/09/21 15:31	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 15:31	1
Hexachlorobenzene	ND	F2	5.0	0.51	ug/L		02/08/21 14:57	02/09/21 15:31	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 15:31	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 15:31	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 15:31	1
Indeno[1,2,3-cd]pyrene	ND	F2	5.0	0.47	ug/L		02/08/21 14:57	02/09/21 15:31	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 15:31	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 15:31	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 15:31	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 15:31	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 15:31	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 15:31	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 15:31	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 15:31	1
Pyrene	ND	F2	5.0	0.34	ug/L		02/08/21 14:57	02/09/21 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*	*02/08/21 14:57*	*02/09/21 15:31*	*1*
Phenol-d5 (Surr)	*43*		*22 - 120*	*02/08/21 14:57*	*02/09/21 15:31*	*1*
p-Terphenyl-d14 (Surr)	*79*		*60 - 148*	*02/08/21 14:57*	*02/09/21 15:31*	*1*
2,4,6-Tribromophenol (Surr)	*111*		*41 - 120*	*02/08/21 14:57*	*02/09/21 15:31*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*02/08/21 14:57*	*02/09/21 15:31*	*1*
2-Fluorophenol (Surr)	*61*		*35 - 120*	*02/08/21 14:57*	*02/09/21 15:31*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 12:41	1
4,4'-DDE	ND	F2	0.050	0.012	ug/L		02/09/21 15:24	02/10/21 12:41	1
4,4'-DDT	ND	F2	0.050	0.011	ug/L		02/09/21 15:24	02/10/21 12:41	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 12:41	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 12:41	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 12:41	1
beta-BHC	ND	F1	0.050	0.025	ug/L		02/09/21 15:24	02/10/21 12:41	1
delta-BHC	**0.018**	**J B**	0.050	0.010	ug/L		02/09/21 15:24	02/10/21 12:41	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 12:41	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 12:41	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 12:41	1

Client: Benchmark Env. Eng. & Science, PLLC
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Client Sample ID: MW-1

Date Collected: 02/04/21 14:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-9

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND	F1	0.050	0.016	ug/L		02/09/21 15:24	02/10/21 12:41	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 12:41	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 12:41	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 12:41	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 12:41	1
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 12:41	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 12:41	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 12:41	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 12:41	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*20 - 120*	*02/09/21 15:24*	*02/10/21 12:41*	*1*
Tetrachloro-m-xylene	*113*		*44 - 120*	*02/09/21 15:24*	*02/10/21 12:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 21:07	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 21:07	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 21:07	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 21:07	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 21:07	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 21:07	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*39 - 121*	*02/10/21 07:35*	*02/10/21 21:07*	*1*
DCB Decachlorobiphenyl	*42*		*19 - 120*	*02/10/21 07:35*	*02/10/21 21:07*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/11/21 20:38	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/11/21 20:38	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/11/21 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*61*		*48 - 132*	*02/10/21 15:10*	*02/11/21 20:38*	*1*
2,4-Dichlorophenylacetic acid	*64*		*48 - 132*	*02/10/21 15:10*	*02/11/21 20:38*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.14**	**J**	4.56	2.19	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluoropentanoic acid (PFPeA)	**0.54**	**J**	1.82	0.45	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorohexanoic acid (PFHxA)	1.82		1.82	0.53	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluoroheptanoic acid (PFHpA)	1.82		1.82	0.23	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorooctanoic acid (PFOA)	1.82		1.82	0.77	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorononanoic acid (PFNA)	1.82		1.82	0.25	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorodecanoic acid (PFDA)	1.82		1.82	0.28	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluoroundecanoic acid (PFUnA)	1.82		1.82	1.00	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorododecanoic acid (PFDoA)	1.82		1.82	0.50	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorotridecanoic acid (PFTriA)	1.82		1.82	1.18	ng/L		02/10/21 18:51	02/11/21 10:46	1

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Client Sample ID: MW-1

Date Collected: 02/04/21 14:30
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Lab Sample ID: 480-180934-9

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	1.82		1.82	0.67	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorobutanesulfonic acid (PFBS)	**0.43**	**J**	1.82	0.18	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorohexanesulfonic acid (PFHxS)	1.82		1.82	0.52	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.82		1.82	0.17	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorooctanesulfonic acid (PFOS)	**0.53**	**J**	1.82	0.49	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorodecanesulfonic acid (PFDS)	1.82		1.82	0.29	ng/L		02/10/21 18:51	02/11/21 10:46	1
Perfluorooctanesulfonamide (FOSA)	1.82		1.82	0.89	ng/L		02/10/21 18:51	02/11/21 10:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.56		4.56	1.09	ng/L		02/10/21 18:51	02/11/21 10:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.56		4.56	1.18	ng/L		02/10/21 18:51	02/11/21 10:46	1
6:2 FTS	4.56		4.56	2.28	ng/L		02/10/21 18:51	02/11/21 10:46	1
8:2 FTS	1.82		1.82	0.42	ng/L		02/10/21 18:51	02/11/21 10:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*76*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C5 PFPeA	*51*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C2 PFHxA	*96*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C4 PFHpA	*91*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C4 PFOA	*110*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C5 PFNA	*103*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C2 PFDA	*110*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C2 PFUnA	*109*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C2 PFDoA	*99*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C2 PFTeDA	*113*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C3 PFBS	*71*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
18O2 PFHxS	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C4 PFOS	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
13C8 FOSA	*93*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
d3-NMeFOSAA	*96*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
d5-NEtFOSAA	*85*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
M2-6:2 FTS	*95*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*
M2-8:2 FTS	*125*		*25 - 150*	*02/10/21 18:51*	*02/11/21 10:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		02/08/21 10:57	02/11/21 16:37	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:37	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 16:37	1
Barium	**0.030**		0.0020		mg/L		02/08/21 10:57	02/11/21 16:37	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:37	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 16:37	1
Calcium	**126**		0.50		mg/L		02/08/21 10:57	02/11/21 16:37	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:37	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 16:37	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:37	1
Iron	ND		0.050		mg/L		02/08/21 10:57	02/11/21 16:37	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:37	1
Magnesium	**47.8**		0.20		mg/L		02/08/21 10:57	02/11/21 16:37	1

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Job ID: 480-180934-1

Client Sample ID: MW-1
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Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-9
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.015**	**F1**	0.0030		mg/L		02/08/21 10:57	02/11/21 16:37	1
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:37	1
Potassium	**5.1**		0.50		mg/L		02/08/21 10:57	02/11/21 16:37	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 16:37	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 16:37	1
Sodium	**69.7**		1.0		mg/L		02/08/21 10:57	02/11/21 16:37	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 16:37	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 16:37	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 16:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 16:21	1

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Job ID: 480-180934-1

Client Sample ID: MW-4D

Date Collected: 02/04/21 12:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/11/21 12:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/11/21 12:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/11/21 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/11/21 12:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/11/21 12:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/11/21 12:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/11/21 12:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/11/21 12:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/11/21 12:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/11/21 12:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/11/21 12:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/11/21 12:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/11/21 12:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/11/21 12:23	1
2-Hexanone	ND		5.0	1.2	ug/L			02/11/21 12:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/11/21 12:23	1
Acetone	ND		10	3.0	ug/L			02/11/21 12:23	1
Benzene	ND		1.0	0.41	ug/L			02/11/21 12:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/11/21 12:23	1
Bromoform	ND		1.0	0.26	ug/L			02/11/21 12:23	1
Bromomethane	ND		1.0	0.69	ug/L			02/11/21 12:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/11/21 12:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/11/21 12:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/11/21 12:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/11/21 12:23	1
Chloroethane	ND		1.0	0.32	ug/L			02/11/21 12:23	1
Chloroform	ND		1.0	0.34	ug/L			02/11/21 12:23	1
Chloromethane	ND		1.0	0.35	ug/L			02/11/21 12:23	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.81	ug/L			02/11/21 12:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/11/21 12:23	1
Cyclohexane	ND		1.0	0.18	ug/L			02/11/21 12:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/11/21 12:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/11/21 12:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/11/21 12:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/11/21 12:23	1
Methyl acetate	ND		2.5	1.3	ug/L			02/11/21 12:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/11/21 12:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/11/21 12:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/11/21 12:23	1
Styrene	ND		1.0	0.73	ug/L			02/11/21 12:23	1
Tetrachloroethene	**0.39**	**J**	1.0	0.36	ug/L			02/11/21 12:23	1
Toluene	ND		1.0	0.51	ug/L			02/11/21 12:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/11/21 12:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/11/21 12:23	1
Trichloroethene	ND		1.0	0.46	ug/L			02/11/21 12:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/11/21 12:23	1
Vinyl chloride	**2.3**		1.0	0.90	ug/L			02/11/21 12:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/11/21 12:23	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-4D
Date Collected: 02/04/21 12:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/11/21 12:23	1
1,2-Dichloroethane-d4 (Surr)	91		77 - 120		02/11/21 12:23	1
4-Bromofluorobenzene (Surr)	87		73 - 120		02/11/21 12:23	1
Dibromofluoromethane (Surr)	95		75 - 123		02/11/21 12:23	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-2D

Date Collected: 02/04/21 11:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/11/21 12:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/11/21 12:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/11/21 12:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/11/21 12:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/11/21 12:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/11/21 12:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/11/21 12:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/11/21 12:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/11/21 12:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/11/21 12:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/11/21 12:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/11/21 12:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/11/21 12:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/11/21 12:48	1
2-Hexanone	ND		5.0	1.2	ug/L			02/11/21 12:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/11/21 12:48	1
Acetone	ND		10	3.0	ug/L			02/11/21 12:48	1
Benzene	ND		1.0	0.41	ug/L			02/11/21 12:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/11/21 12:48	1
Bromoform	ND		1.0	0.26	ug/L			02/11/21 12:48	1
Bromomethane	ND		1.0	0.69	ug/L			02/11/21 12:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/11/21 12:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/11/21 12:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/11/21 12:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/11/21 12:48	1
Chloroethane	ND		1.0	0.32	ug/L			02/11/21 12:48	1
Chloroform	ND		1.0	0.34	ug/L			02/11/21 12:48	1
Chloromethane	ND		1.0	0.35	ug/L			02/11/21 12:48	1
cis-1,2-Dichloroethene	**5.6**		1.0	0.81	ug/L			02/11/21 12:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/11/21 12:48	1
Cyclohexane	ND		1.0	0.18	ug/L			02/11/21 12:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/11/21 12:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/11/21 12:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/11/21 12:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/11/21 12:48	1
Methyl acetate	ND		2.5	1.3	ug/L			02/11/21 12:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/11/21 12:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/11/21 12:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/11/21 12:48	1
Styrene	ND		1.0	0.73	ug/L			02/11/21 12:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/11/21 12:48	1
Toluene	ND		1.0	0.51	ug/L			02/11/21 12:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/11/21 12:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/11/21 12:48	1
Trichloroethene	**1.1**		1.0	0.46	ug/L			02/11/21 12:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/11/21 12:48	1
Vinyl chloride	**41**		1.0	0.90	ug/L			02/11/21 12:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/11/21 12:48	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-2D
Date Collected: 02/04/21 11:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		02/11/21 12:48	1
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		02/11/21 12:48	1
4-Bromofluorobenzene (Surr)	92		73 - 120		02/11/21 12:48	1
Dibromofluoromethane (Surr)	98		75 - 123		02/11/21 12:48	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-3

Date Collected: 02/04/21 12:10
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		250	210	ug/L			02/11/21 12:31	250
1,1,2,2-Tetrachloroethane	ND		250	53	ug/L			02/11/21 12:31	250
1,1,2-Trichloroethane	ND		250	58	ug/L			02/11/21 12:31	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	78	ug/L			02/11/21 12:31	250
1,1-Dichloroethane	ND		250	95	ug/L			02/11/21 12:31	250
1,1-Dichloroethene	ND		250	73	ug/L			02/11/21 12:31	250
1,2,4-Trichlorobenzene	ND		250	100	ug/L			02/11/21 12:31	250
1,2-Dibromo-3-Chloropropane	ND		250	98	ug/L			02/11/21 12:31	250
1,2-Dichlorobenzene	ND		250	200	ug/L			02/11/21 12:31	250
1,2-Dichloroethane	ND		250	53	ug/L			02/11/21 12:31	250
1,2-Dichloropropane	ND		250	180	ug/L			02/11/21 12:31	250
1,3-Dichlorobenzene	ND		250	200	ug/L			02/11/21 12:31	250
1,4-Dichlorobenzene	ND		250	210	ug/L			02/11/21 12:31	250
2-Butanone (MEK)	ND		2500	330	ug/L			02/11/21 12:31	250
2-Hexanone	ND		1300	310	ug/L			02/11/21 12:31	250
4-Methyl-2-pentanone (MIBK)	ND		1300	530	ug/L			02/11/21 12:31	250
Acetone	ND		2500	750	ug/L			02/11/21 12:31	250
Benzene	ND		250	100	ug/L			02/11/21 12:31	250
Bromodichloromethane	ND		250	98	ug/L			02/11/21 12:31	250
Bromoform	ND		250	65	ug/L			02/11/21 12:31	250
Bromomethane	ND		250	170	ug/L			02/11/21 12:31	250
Carbon disulfide	ND		250	48	ug/L			02/11/21 12:31	250
Carbon tetrachloride	ND		250	68	ug/L			02/11/21 12:31	250
Chlorobenzene	ND		250	190	ug/L			02/11/21 12:31	250
Dibromochloromethane	ND		250	80	ug/L			02/11/21 12:31	250
Chloroethane	ND		250	80	ug/L			02/11/21 12:31	250
Chloroform	ND		250	85	ug/L			02/11/21 12:31	250
Chloromethane	ND		250	88	ug/L			02/11/21 12:31	250
cis-1,2-Dichloroethene	**1700**		250	200	ug/L			02/11/21 12:31	250
cis-1,3-Dichloropropene	ND		250	90	ug/L			02/11/21 12:31	250
Cyclohexane	ND		250	45	ug/L			02/11/21 12:31	250
Dichlorodifluoromethane	ND		250	170	ug/L			02/11/21 12:31	250
Ethylbenzene	ND		250	190	ug/L			02/11/21 12:31	250
1,2-Dibromoethane	ND		250	180	ug/L			02/11/21 12:31	250
Isopropylbenzene	ND		250	200	ug/L			02/11/21 12:31	250
Methyl acetate	ND		630	330	ug/L			02/11/21 12:31	250
Methyl tert-butyl ether	ND		250	40	ug/L			02/11/21 12:31	250
Methylcyclohexane	ND		250	40	ug/L			02/11/21 12:31	250
Methylene Chloride	ND		250	110	ug/L			02/11/21 12:31	250
Styrene	ND		250	180	ug/L			02/11/21 12:31	250
Tetrachloroethene	**25000**	**E**	250	90	ug/L			02/11/21 12:31	250
Toluene	ND		250	130	ug/L			02/11/21 12:31	250
trans-1,2-Dichloroethene	ND		250	230	ug/L			02/11/21 12:31	250
trans-1,3-Dichloropropene	ND		250	93	ug/L			02/11/21 12:31	250
Trichloroethene	**1600**		250	120	ug/L			02/11/21 12:31	250
Trichlorofluoromethane	ND		250	220	ug/L			02/11/21 12:31	250
Vinyl chloride	ND		250	230	ug/L			02/11/21 12:31	250
Xylenes, Total	ND		500	170	ug/L			02/11/21 12:31	250

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-3

Date Collected: 02/04/21 12:10
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/11/21 12:31*	*250*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*02/11/21 12:31*	*250*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*02/11/21 12:31*	*250*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/11/21 12:31*	*250*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		400	330	ug/L			02/11/21 14:07	400
1,1,2,2-Tetrachloroethane	ND		400	84	ug/L			02/11/21 14:07	400
1,1,2-Trichloroethane	ND		400	92	ug/L			02/11/21 14:07	400
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		400	120	ug/L			02/11/21 14:07	400
1,1-Dichloroethane	ND		400	150	ug/L			02/11/21 14:07	400
1,1-Dichloroethene	ND		400	120	ug/L			02/11/21 14:07	400
1,2,4-Trichlorobenzene	ND		400	160	ug/L			02/11/21 14:07	400
1,2-Dibromo-3-Chloropropane	ND		400	160	ug/L			02/11/21 14:07	400
1,2-Dichlorobenzene	ND		400	320	ug/L			02/11/21 14:07	400
1,2-Dichloroethane	ND		400	84	ug/L			02/11/21 14:07	400
1,2-Dichloropropane	ND		400	290	ug/L			02/11/21 14:07	400
1,3-Dichlorobenzene	ND		400	310	ug/L			02/11/21 14:07	400
1,4-Dichlorobenzene	ND		400	340	ug/L			02/11/21 14:07	400
2-Butanone (MEK)	ND		4000	530	ug/L			02/11/21 14:07	400
2-Hexanone	ND		2000	500	ug/L			02/11/21 14:07	400
4-Methyl-2-pentanone (MIBK)	ND		2000	840	ug/L			02/11/21 14:07	400
Acetone	ND		4000	1200	ug/L			02/11/21 14:07	400
Benzene	ND		400	160	ug/L			02/11/21 14:07	400
Bromodichloromethane	ND		400	160	ug/L			02/11/21 14:07	400
Bromoform	ND		400	100	ug/L			02/11/21 14:07	400
Bromomethane	ND		400	280	ug/L			02/11/21 14:07	400
Carbon disulfide	ND		400	76	ug/L			02/11/21 14:07	400
Carbon tetrachloride	ND		400	110	ug/L			02/11/21 14:07	400
Chlorobenzene	ND		400	300	ug/L			02/11/21 14:07	400
Dibromochloromethane	ND		400	130	ug/L			02/11/21 14:07	400
Chloroethane	ND		400	130	ug/L			02/11/21 14:07	400
Chloroform	ND		400	140	ug/L			02/11/21 14:07	400
Chloromethane	ND		400	140	ug/L			02/11/21 14:07	400
cis-1,2-Dichloroethene	**1700**		400	320	ug/L			02/11/21 14:07	400
cis-1,3-Dichloropropene	ND		400	140	ug/L			02/11/21 14:07	400
Cyclohexane	ND		400	72	ug/L			02/11/21 14:07	400
Dichlorodifluoromethane	ND		400	270	ug/L			02/11/21 14:07	400
Ethylbenzene	ND		400	300	ug/L			02/11/21 14:07	400
1,2-Dibromoethane	ND		400	290	ug/L			02/11/21 14:07	400
Isopropylbenzene	ND		400	320	ug/L			02/11/21 14:07	400
Methyl acetate	ND		1000	520	ug/L			02/11/21 14:07	400
Methyl tert-butyl ether	ND		400	64	ug/L			02/11/21 14:07	400
Methylcyclohexane	ND		400	64	ug/L			02/11/21 14:07	400
Methylene Chloride	ND		400	180	ug/L			02/11/21 14:07	400
Styrene	ND		400	290	ug/L			02/11/21 14:07	400
Tetrachloroethene	**25000**		400	140	ug/L			02/11/21 14:07	400
Toluene	ND		400	200	ug/L			02/11/21 14:07	400
trans-1,2-Dichloroethene	ND		400	360	ug/L			02/11/21 14:07	400

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-3
Date Collected: 02/04/21 12:10
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		400	150	ug/L			02/11/21 14:07	400
Trichloroethene	**1500**		400	180	ug/L			02/11/21 14:07	400
Trichlorofluoromethane	ND		400	350	ug/L			02/11/21 14:07	400
Vinyl chloride	ND		400	360	ug/L			02/11/21 14:07	400
Xylenes, Total	ND		800	260	ug/L			02/11/21 14:07	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/11/21 14:07*	*400*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/11/21 14:07*	*400*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*02/11/21 14:07*	*400*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*02/11/21 14:07*	*400*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-2

Date Collected: 02/04/21 10:30
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/11/21 12:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/11/21 12:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/11/21 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/11/21 12:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/11/21 12:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/11/21 12:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/11/21 12:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/11/21 12:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/11/21 12:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/11/21 12:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/11/21 12:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/11/21 12:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/11/21 12:55	1
2-Butanone (MEK)	**13**		10	1.3	ug/L			02/11/21 12:55	1
2-Hexanone	ND		5.0	1.2	ug/L			02/11/21 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/11/21 12:55	1
Acetone	**17**		10	3.0	ug/L			02/11/21 12:55	1
Benzene	ND		1.0	0.41	ug/L			02/11/21 12:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/11/21 12:55	1
Bromoform	ND		1.0	0.26	ug/L			02/11/21 12:55	1
Bromomethane	ND		1.0	0.69	ug/L			02/11/21 12:55	1
Carbon disulfide	**0.31**	**J**	1.0	0.19	ug/L			02/11/21 12:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/11/21 12:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/11/21 12:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/11/21 12:55	1
Chloroethane	ND		1.0	0.32	ug/L			02/11/21 12:55	1
Chloroform	ND		1.0	0.34	ug/L			02/11/21 12:55	1
Chloromethane	ND		1.0	0.35	ug/L			02/11/21 12:55	1
cis-1,2-Dichloroethene	**0.85**	**J**	1.0	0.81	ug/L			02/11/21 12:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/11/21 12:55	1
Cyclohexane	ND		1.0	0.18	ug/L			02/11/21 12:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/11/21 12:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/11/21 12:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/11/21 12:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/11/21 12:55	1
Methyl acetate	ND		2.5	1.3	ug/L			02/11/21 12:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/11/21 12:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/11/21 12:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/11/21 12:55	1
Styrene	ND		1.0	0.73	ug/L			02/11/21 12:55	1
Tetrachloroethene	**16**		1.0	0.36	ug/L			02/11/21 12:55	1
Toluene	ND		1.0	0.51	ug/L			02/11/21 12:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/11/21 12:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/11/21 12:55	1
Trichloroethene	**0.88**	**J**	1.0	0.46	ug/L			02/11/21 12:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/11/21 12:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/11/21 12:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/11/21 12:55	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-2
Date Collected: 02/04/21 10:30
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		02/11/21 12:55	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/11/21 12:55	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/11/21 12:55	1
Dibromofluoromethane (Surr)	99		75 - 123		02/11/21 12:55	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-4

Date Collected: 02/04/21 12:30
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			02/11/21 13:19	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			02/11/21 13:19	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			02/11/21 13:19	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			02/11/21 13:19	10
1,1-Dichloroethane	ND		10	3.8	ug/L			02/11/21 13:19	10
1,1-Dichloroethene	**4.6**	**J**	10	2.9	ug/L			02/11/21 13:19	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			02/11/21 13:19	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			02/11/21 13:19	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			02/11/21 13:19	10
1,2-Dichloroethane	ND		10	2.1	ug/L			02/11/21 13:19	10
1,2-Dichloropropane	ND		10	7.2	ug/L			02/11/21 13:19	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			02/11/21 13:19	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			02/11/21 13:19	10
2-Butanone (MEK)	ND		100	13	ug/L			02/11/21 13:19	10
2-Hexanone	ND		50	12	ug/L			02/11/21 13:19	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			02/11/21 13:19	10
Acetone	ND		100	30	ug/L			02/11/21 13:19	10
Benzene	ND		10	4.1	ug/L			02/11/21 13:19	10
Bromodichloromethane	ND		10	3.9	ug/L			02/11/21 13:19	10
Bromoform	ND		10	2.6	ug/L			02/11/21 13:19	10
Bromomethane	ND		10	6.9	ug/L			02/11/21 13:19	10
Carbon disulfide	ND		10	1.9	ug/L			02/11/21 13:19	10
Carbon tetrachloride	ND		10	2.7	ug/L			02/11/21 13:19	10
Chlorobenzene	ND		10	7.5	ug/L			02/11/21 13:19	10
Dibromochloromethane	ND		10	3.2	ug/L			02/11/21 13:19	10
Chloroethane	ND		10	3.2	ug/L			02/11/21 13:19	10
Chloroform	ND		10	3.4	ug/L			02/11/21 13:19	10
Chloromethane	ND		10	3.5	ug/L			02/11/21 13:19	10
cis-1,2-Dichloroethene	**770**		10	8.1	ug/L			02/11/21 13:19	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			02/11/21 13:19	10
Cyclohexane	ND		10	1.8	ug/L			02/11/21 13:19	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			02/11/21 13:19	10
Ethylbenzene	ND		10	7.4	ug/L			02/11/21 13:19	10
1,2-Dibromoethane	ND		10	7.3	ug/L			02/11/21 13:19	10
Isopropylbenzene	ND		10	7.9	ug/L			02/11/21 13:19	10
Methyl acetate	ND		25	13	ug/L			02/11/21 13:19	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			02/11/21 13:19	10
Methylcyclohexane	ND		10	1.6	ug/L			02/11/21 13:19	10
Methylene Chloride	ND		10	4.4	ug/L			02/11/21 13:19	10
Styrene	ND		10	7.3	ug/L			02/11/21 13:19	10
Tetrachloroethene	**240**		10	3.6	ug/L			02/11/21 13:19	10
Toluene	ND		10	5.1	ug/L			02/11/21 13:19	10
trans-1,2-Dichloroethene	**46**		10	9.0	ug/L			02/11/21 13:19	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			02/11/21 13:19	10
Trichloroethene	**920**		10	4.6	ug/L			02/11/21 13:19	10
Trichlorofluoromethane	ND		10	8.8	ug/L			02/11/21 13:19	10
Vinyl chloride	**130**		10	9.0	ug/L			02/11/21 13:19	10
Xylenes, Total	ND		20	6.6	ug/L			02/11/21 13:19	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-4
Date Collected: 02/04/21 12:30
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		02/11/21 13:19	10
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/11/21 13:19	10
4-Bromofluorobenzene (Surr)	102		73 - 120		02/11/21 13:19	10
Dibromofluoromethane (Surr)	103		75 - 123		02/11/21 13:19	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-5

Date Collected: 02/04/21 16:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/11/21 13:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/11/21 13:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/11/21 13:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/11/21 13:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/11/21 13:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/11/21 13:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/11/21 13:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/11/21 13:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/11/21 13:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/11/21 13:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/11/21 13:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/11/21 13:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/11/21 13:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/11/21 13:43	1
2-Hexanone	ND		5.0	1.2	ug/L			02/11/21 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/11/21 13:43	1
Acetone	**5.8**	**J**	10	3.0	ug/L			02/11/21 13:43	1
Benzene	ND		1.0	0.41	ug/L			02/11/21 13:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/11/21 13:43	1
Bromoform	ND		1.0	0.26	ug/L			02/11/21 13:43	1
Bromomethane	ND		1.0	0.69	ug/L			02/11/21 13:43	1
Carbon disulfide	**0.24**	**J**	1.0	0.19	ug/L			02/11/21 13:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/11/21 13:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/11/21 13:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/11/21 13:43	1
Chloroethane	ND		1.0	0.32	ug/L			02/11/21 13:43	1
Chloroform	ND		1.0	0.34	ug/L			02/11/21 13:43	1
Chloromethane	ND		1.0	0.35	ug/L			02/11/21 13:43	1
cis-1,2-Dichloroethene	**9.2**		1.0	0.81	ug/L			02/11/21 13:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/11/21 13:43	1
Cyclohexane	ND		1.0	0.18	ug/L			02/11/21 13:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/11/21 13:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/11/21 13:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/11/21 13:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/11/21 13:43	1
Methyl acetate	ND		2.5	1.3	ug/L			02/11/21 13:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/11/21 13:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/11/21 13:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/11/21 13:43	1
Styrene	ND		1.0	0.73	ug/L			02/11/21 13:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/11/21 13:43	1
Toluene	ND		1.0	0.51	ug/L			02/11/21 13:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/11/21 13:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/11/21 13:43	1
Trichloroethene	**1.7**		1.0	0.46	ug/L			02/11/21 13:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/11/21 13:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/11/21 13:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/11/21 13:43	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-5
Date Collected: 02/04/21 16:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		02/11/21 13:43	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/11/21 13:43	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/11/21 13:43	1
Dibromofluoromethane (Surr)	102		75 - 123		02/11/21 13:43	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-180934-1	MW-13	99	96	98	99
480-180934-2	BD	98	101	100	100
480-180934-3	MW-12	99	98	97	95
480-180934-4	EQUIPMENT BLANK	97	101	100	101
480-180934-5	MW-8D	97	97	97	95
480-180934-6	MW-1D	99	99	102	99
480-180934-7	MW-9	98	98	99	99
480-180934-8	MW-8	99	99	101	97
480-180934-9	MW-1	96	102	100	101
480-180934-9 MS	MW-1	98	101	99	99
480-180934-9 MSD	MW-1	100	99	99	99
480-181055-1	MW-4D	98	91	87	95
480-181055-2	MW-2D	102	92	92	98
480-181055-3	PZ-3	96	100	97	101
480-181055-3 - DL	PZ-3	98	102	100	102
480-181055-4	PZ-2	99	102	100	99
480-181055-5	PZ-4	97	102	102	103
480-181055-6	PZ-5	99	103	98	102
LCS 480-568619/5	Lab Control Sample	99	99	98	101
LCS 480-568777/5	Lab Control Sample	99	106	98	103
LCS 480-569089/5	Lab Control Sample	100	91	93	94
LCS 480-569114/5	Lab Control Sample	99	98	104	99
MB 480-568619/30	Method Blank	99	97	95	96
MB 480-568777/8	Method Blank	98	97	98	96
MB 480-569089/7	Method Blank	99	90	89	93
MB 480-569114/7	Method Blank	99	102	99	101

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(46-120)	(22-120)	(60-148)	(41-120)	(48-120)	(35-120)
480-180934-1	MW-13	98	48	79	108	93	65
480-180934-2	BD	101	52	75	116	105	70
480-180934-3	MW-12	104	47	81	129 S1+	107	65
480-180934-4	EQUIPMENT BLANK	95	48	92	97	97	57
480-180934-5	MW-8D	102	47	76	111	100	65
480-180934-6	MW-1D	98	49	69	126 S1+	101	62
480-180934-7	MW-9	102	46	80	123 S1+	98	63
480-180934-8	MW-8	104	54	84	130 S1+	102	66
480-180934-9	MW-1	101	43	79	111	97	61
480-180934-9 MS	MW-1	94	51	47 S1-	106	91	63
480-180934-9 MSD	MW-1	94	53	72	114	98	63

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (46-120)	PHL (22-120)	TPHd14 (60-148)	TBP (41-120)	FBP (48-120)	2FP (35-120)
LCS 480-568692/2-A	Lab Control Sample	103	58	113	109	104	73
MB 480-568692/1-A	Method Blank	102	48	108	105	103	68

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (20-120)	TCX1 (44-120)
480-180934-1	MW-13	58	107
480-180934-2	BD	44	101
480-180934-3	MW-12	51	124 S1+
480-180934-4	EQUIPMENT BLANK	62	105
480-180934-5	MW-8D	42	96
480-180934-6	MW-1D	43	88
480-180934-7	MW-9	43	92
480-180934-8	MW-8	48	105
480-180934-9	MW-1	45	113
480-180934-9 MS	MW-1	35	107
480-180934-9 MSD	MW-1	47	148 S1+
LCS 480-568839/2-A	Lab Control Sample	43	100
MB 480-568839/1-A	Method Blank	44	105

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (39-121)	DCBP1 (19-120)
480-180934-1	MW-13	89	49
480-180934-2	BD	76	17 S1-
480-180934-3	MW-12	83	55
480-180934-4	EQUIPMENT BLANK	84	67
480-180934-5	MW-8D	70	34
480-180934-6	MW-1D	84	36
480-180934-7	MW-9	76	34
480-180934-8	MW-8	85	38
480-180934-9	MW-1	81	42
480-180934-9 MS	MW-1	78	25
480-180934-9 MSD	MW-1	80	34

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (39-121)	DCBP1 (19-120)
LCS 480-568874/2-A	Lab Control Sample	84	50
MB 480-568874/1-A	Method Blank	87	57

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (48-132)	DCPAA2 (48-132)
480-180934-1	MW-13	59	64
480-180934-2	BD	46 S1-	46 S1-
480-180934-2 - RE	BD	50	108
480-180934-3	MW-12	83	101
480-180934-4	EQUIPMENT BLANK	75	65
480-180934-5	MW-8D	48	89
480-180934-6	MW-1D	87	75
480-180934-7	MW-9	32 S1-	26 S1-
480-180934-7 - RE	MW-9	51	45 S1-
480-180934-8	MW-8	55	57
480-180934-9	MW-1	61	64
480-180934-9 MS	MW-1	56	54
480-180934-9 MSD	MW-1	67	65
LCS 480-569009/2-A	Lab Control Sample	68	60
LCS 480-569472/2-A	Lab Control Sample	77	65
LCSD 480-569472/3-A	Lab Control Sample Dup	44 S1-	55
MB 480-569009/1-A	Method Blank	64	67
MB 480-569472/1-A	Method Blank	83	74

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180934-1
Project/Site: Benchmark - 3077 Union Rd

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-180934-1	MW-13	28							
480-180934-2	BD	29							
480-180934-3	MW-12	31							
480-180934-4	EQUIPMENT BLANK	32							
480-180934-5	MW-8D	39							
480-180934-6	MW-1D	28							
480-180934-7	MW-9	28							
480-180934-8	MW-8	30							
480-180934-9	MW-1	26							
480-180934-9 MS	MW-1	29							
480-180934-9 MSD	MW-1	28							
LCS 480-568697/2-A	Lab Control Sample	30							
MB 480-568697/1-A	Method Blank	32							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-180934-1	MW-13	79	58	97	93	107	97	106	104
480-180934-2	BD	89	56	91	81	92	88	88	77
480-180934-3	MW-12	79	52	91	82	94	85	88	97
480-180934-4	EQUIPMENT BLANK	94	81	103	101	106	107	104	108
480-180934-5	MW-8D	82	53	85	77	89	80	83	73
480-180934-6	MW-1D	92	69	99	96	103	95	99	109
480-180934-7	MW-9	100	69	112	103	120	108	115	102
480-180934-8	MW-8	82	58	97	81	95	90	85	84
480-180934-9	MW-1	76	51	96	91	110	103	110	109
480-180934-9 MS	MW-1	72	51	98	84	102	93	113	108
480-180934-9 MSD	MW-1	67	46	92	84	97	84	89	85
LCS 320-460901/2-A	Lab Control Sample	89	86	94	94	106	95	95	110
MB 320-460901/1-A	Method Blank	86	87	94	90	102	91	90	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
480-180934-1	MW-13	96	98	76	93	92	88	92	79
480-180934-2	BD	79	75	75	85	80	75	70	63
480-180934-3	MW-12	87	86	71	85	78	75	80	73
480-180934-4	EQUIPMENT BLANK	103	98	92	96	96	93	93	80
480-180934-5	MW-8D	67	74	70	77	73	70	45	57
480-180934-6	MW-1D	103	80	83	96	92	87	97	90
480-180934-7	MW-9	107	108	87	103	94	92	99	84
480-180934-8	MW-8	74	88	77	87	78	75	64	59
480-180934-9	MW-1	99	113	71	93	93	93	96	85
480-180934-9 MS	MW-1	102	100	69	92	88	88	86	77
480-180934-9 MSD	MW-1	84	84	65	83	83	82	71	61

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180934-1
Project/Site: Benchmark - 3077 Union Rd

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
LCS 320-460901/2-A	Lab Control Sample	96	92	84	89	85	85	93	81
MB 320-460901/1-A	Method Blank	92	68	86	86	87	82	90	78

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-180934-1	MW-13	107	147
480-180934-2	BD	93	157 *5+
480-180934-3	MW-12	90	193 *5+
480-180934-4	EQUIPMENT BLANK	95	98
480-180934-5	MW-8D	90	142
480-180934-6	MW-1D	101	140
480-180934-7	MW-9	123	171 *5+
480-180934-8	MW-8	100	102
480-180934-9	MW-1	95	125
480-180934-9 MS	MW-1	84	102
480-180934-9 MSD	MW-1	78	81
LCS 320-460901/2-A	Lab Control Sample	88	103
MB 320-460901/1-A	Method Blank	92	110

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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

Lab Sample ID: MB 480-568619/30
Matrix: Water
Analysis Batch: 568619

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/08/21 12:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/08/21 12:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/08/21 12:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/08/21 12:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/08/21 12:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/08/21 12:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/08/21 12:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/08/21 12:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/08/21 12:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/08/21 12:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/08/21 12:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/08/21 12:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/08/21 12:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/08/21 12:29	1
2-Hexanone	ND		5.0	1.2	ug/L			02/08/21 12:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/08/21 12:29	1
Acetone	ND		10	3.0	ug/L			02/08/21 12:29	1
Benzene	ND		1.0	0.41	ug/L			02/08/21 12:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/08/21 12:29	1
Bromoform	ND		1.0	0.26	ug/L			02/08/21 12:29	1
Bromomethane	ND		1.0	0.69	ug/L			02/08/21 12:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/08/21 12:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/08/21 12:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/08/21 12:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/08/21 12:29	1
Chloroethane	ND		1.0	0.32	ug/L			02/08/21 12:29	1
Chloroform	ND		1.0	0.34	ug/L			02/08/21 12:29	1
Chloromethane	ND		1.0	0.35	ug/L			02/08/21 12:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/08/21 12:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/08/21 12:29	1
Cyclohexane	ND		1.0	0.18	ug/L			02/08/21 12:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/08/21 12:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/08/21 12:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/08/21 12:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/08/21 12:29	1
Methyl acetate	ND		2.5	1.3	ug/L			02/08/21 12:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/08/21 12:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/08/21 12:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/08/21 12:29	1
Styrene	ND		1.0	0.73	ug/L			02/08/21 12:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/08/21 12:29	1
Toluene	ND		1.0	0.51	ug/L			02/08/21 12:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/08/21 12:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/08/21 12:29	1
Trichloroethene	ND		1.0	0.46	ug/L			02/08/21 12:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/08/21 12:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/08/21 12:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/08/21 12:29	1

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

Lab Sample ID: MB 480-568619/30
Matrix: Water
Analysis Batch: 568619

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/08/21 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*02/08/21 12:29*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/08/21 12:29*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*02/08/21 12:29*	*1*

Lab Sample ID: LCS 480-568619/5
Matrix: Water
Analysis Batch: 568619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	76 - 120
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.2		ug/L		97	61 - 148
1,1-Dichloroethane	25.0	23.6		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	23.7		ug/L		95	66 - 127
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	56 - 134
1,2-Dichlorobenzene	25.0	22.8		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	22.6		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	22.7		ug/L		91	76 - 120
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	22.8		ug/L		91	80 - 120
2-Butanone (MEK)	125	123		ug/L		98	57 - 140
2-Hexanone	125	121		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	71 - 125
Acetone	125	121		ug/L		97	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	24.6		ug/L		98	80 - 122
Bromoform	25.0	25.8		ug/L		103	61 - 132
Bromomethane	25.0	22.3		ug/L		89	55 - 144
Carbon disulfide	25.0	22.9		ug/L		91	59 - 134
Carbon tetrachloride	25.0	24.0		ug/L		96	72 - 134
Chlorobenzene	25.0	23.7		ug/L		95	80 - 120
Dibromochloromethane	25.0	25.1		ug/L		101	75 - 125
Chloroethane	25.0	21.0		ug/L		84	69 - 136
Chloroform	25.0	22.5		ug/L		90	73 - 127
Chloromethane	25.0	24.3		ug/L		97	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	74 - 124
Cyclohexane	25.0	24.1		ug/L		97	59 - 135
Dichlorodifluoromethane	25.0	28.7		ug/L		115	59 - 135
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
1,2-Dibromoethane	25.0	23.5		ug/L		94	77 - 120
Isopropylbenzene	25.0	22.9		ug/L		92	77 - 122
Methyl acetate	50.0	46.4		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	22.9		ug/L		92	77 - 120
Methylcyclohexane	25.0	24.2		ug/L		97	68 - 134

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

Lab Sample ID: LCS 480-568619/5
Matrix: Water
Analysis Batch: 568619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	20.9		ug/L		84	75 - 124
Styrene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	24.1		ug/L		96	74 - 122
Toluene	25.0	22.7		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	80 - 120
Trichloroethene	25.0	22.7		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	24.1		ug/L		97	62 - 150
Vinyl chloride	25.0	24.4		ug/L		98	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568619

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	27.9		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	76 - 120
1,1,2-Trichloroethane	ND		25.0	26.7		ug/L		107	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.6		ug/L		103	61 - 148
1,1-Dichloroethane	ND		25.0	27.5		ug/L		110	77 - 120
1,1-Dichloroethene	ND		25.0	27.1		ug/L		108	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	27.0		ug/L		108	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	26.9		ug/L		107	56 - 134
1,2-Dichlorobenzene	ND		25.0	27.1		ug/L		108	80 - 124
1,2-Dichloroethane	ND		25.0	25.0		ug/L		100	75 - 120
1,2-Dichloropropane	ND		25.0	25.9		ug/L		104	76 - 120
1,3-Dichlorobenzene	ND		25.0	27.8		ug/L		111	77 - 120
1,4-Dichlorobenzene	ND		25.0	26.6		ug/L		106	78 - 124
2-Butanone (MEK)	ND		125	137		ug/L		110	57 - 140
2-Hexanone	ND		125	140		ug/L		112	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	137		ug/L		110	71 - 125
Acetone	ND		125	134		ug/L		107	56 - 142
Benzene	ND		25.0	26.4		ug/L		106	71 - 124
Bromodichloromethane	ND		25.0	26.8		ug/L		107	80 - 122
Bromoform	ND		25.0	27.3		ug/L		109	61 - 132
Bromomethane	ND		25.0	26.3		ug/L		105	55 - 144
Carbon disulfide	ND		25.0	24.7		ug/L		99	59 - 134
Carbon tetrachloride	ND		25.0	27.6		ug/L		111	72 - 134
Chlorobenzene	ND		25.0	27.6		ug/L		110	80 - 120
Dibromochloromethane	ND		25.0	27.6		ug/L		111	75 - 125
Chloroethane	ND		25.0	24.1		ug/L		96	69 - 136
Chloroform	ND		25.0	25.7		ug/L		103	73 - 127

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

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568619

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		25.0	29.3		ug/L		117	68 - 124
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		107	74 - 124
cis-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	74 - 124
Cyclohexane	ND		25.0	26.7		ug/L		107	59 - 135
Dichlorodifluoromethane	ND		25.0	31.2		ug/L		125	59 - 135
Ethylbenzene	ND		25.0	27.5		ug/L		110	77 - 123
1,2-Dibromoethane	ND		25.0	26.7		ug/L		107	77 - 120
Isopropylbenzene	ND		25.0	27.4		ug/L		110	77 - 122
Methyl acetate	ND		50.0	49.9		ug/L		100	74 - 133
Methyl tert-butyl ether	ND		25.0	25.9		ug/L		103	77 - 120
Methylcyclohexane	ND		25.0	25.6		ug/L		102	68 - 134
Methylene Chloride	ND		25.0	23.9		ug/L		96	75 - 124
Styrene	ND		25.0	27.3		ug/L		109	80 - 120
Tetrachloroethene	ND		25.0	27.5		ug/L		110	74 - 122
Toluene	ND		25.0	26.6		ug/L		106	80 - 122
trans-1,2-Dichloroethene	ND		25.0	28.8		ug/L		115	73 - 127
trans-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	80 - 120
Trichloroethene	ND		25.0	26.9		ug/L		107	74 - 123
Trichlorofluoromethane	ND		25.0	28.2		ug/L		113	62 - 150
Vinyl chloride	ND		25.0	28.6		ug/L		114	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 568619

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	28.7		ug/L		115	73 - 126	3	15
1,1,2,2-Tetrachloroethane	ND		25.0	27.4		ug/L		109	76 - 120	0	15
1,1,2-Trichloroethane	ND		25.0	27.0		ug/L		108	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.5		ug/L		106	61 - 148	3	20
1,1-Dichloroethane	ND		25.0	27.8		ug/L		111	77 - 120	1	20
1,1-Dichloroethene	ND		25.0	27.4		ug/L		109	66 - 127	1	16
1,2,4-Trichlorobenzene	ND		25.0	26.3		ug/L		105	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.3		ug/L		101	56 - 134	6	15
1,2-Dichlorobenzene	ND		25.0	27.1		ug/L		109	80 - 124	0	20
1,2-Dichloroethane	ND		25.0	25.5		ug/L		102	75 - 120	2	20
1,2-Dichloropropane	ND		25.0	26.1		ug/L		104	76 - 120	1	20
1,3-Dichlorobenzene	ND		25.0	27.2		ug/L		109	77 - 120	2	20
1,4-Dichlorobenzene	ND		25.0	26.8		ug/L		107	78 - 124	1	20
2-Butanone (MEK)	ND		125	135		ug/L		108	57 - 140	2	20
2-Hexanone	ND		125	133		ug/L		107	65 - 127	5	15
4-Methyl-2-pentanone (MIBK)	ND		125	133		ug/L		107	71 - 125	3	35

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

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 568619

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		125	130		ug/L		104	56 - 142	3	15
Benzene	ND		25.0	26.9		ug/L		108	71 - 124	2	13
Bromodichloromethane	ND		25.0	27.6		ug/L		110	80 - 122	3	15
Bromoform	ND		25.0	25.7		ug/L		103	61 - 132	6	15
Bromomethane	ND		25.0	24.8		ug/L		99	55 - 144	6	15
Carbon disulfide	ND		25.0	25.5		ug/L		102	59 - 134	3	15
Carbon tetrachloride	ND		25.0	28.3		ug/L		113	72 - 134	2	15
Chlorobenzene	ND		25.0	27.4		ug/L		110	80 - 120	1	25
Dibromochloromethane	ND		25.0	27.1		ug/L		108	75 - 125	2	15
Chloroethane	ND		25.0	23.5		ug/L		94	69 - 136	2	15
Chloroform	ND		25.0	25.9		ug/L		104	73 - 127	1	20
Chloromethane	ND		25.0	29.6		ug/L		118	68 - 124	1	15
cis-1,2-Dichloroethene	ND		25.0	27.3		ug/L		109	74 - 124	3	15
cis-1,3-Dichloropropene	ND		25.0	25.4		ug/L		102	74 - 124	3	15
Cyclohexane	ND		25.0	26.4		ug/L		106	59 - 135	1	20
Dichlorodifluoromethane	ND		25.0	31.7		ug/L		127	59 - 135	1	20
Ethylbenzene	ND		25.0	27.1		ug/L		109	77 - 123	1	15
1,2-Dibromoethane	ND		25.0	26.5		ug/L		106	77 - 120	1	15
Isopropylbenzene	ND		25.0	27.6		ug/L		110	77 - 122	1	20
Methyl acetate	ND		50.0	48.5		ug/L		97	74 - 133	3	20
Methyl tert-butyl ether	ND		25.0	25.4		ug/L		102	77 - 120	2	37
Methylcyclohexane	ND		25.0	25.8		ug/L		103	68 - 134	1	20
Methylene Chloride	ND		25.0	24.6		ug/L		98	75 - 124	3	15
Styrene	ND		25.0	27.1		ug/L		108	80 - 120	1	20
Tetrachloroethene	ND		25.0	28.2		ug/L		113	74 - 122	3	20
Toluene	ND		25.0	27.1		ug/L		108	80 - 122	2	15
trans-1,2-Dichloroethene	ND		25.0	27.8		ug/L		111	73 - 127	4	20
trans-1,3-Dichloropropene	ND		25.0	25.5		ug/L		102	80 - 120	2	15
Trichloroethene	ND		25.0	25.9		ug/L		104	74 - 123	4	16
Trichlorofluoromethane	ND		25.0	28.1		ug/L		112	62 - 150	0	20
Vinyl chloride	ND		25.0	29.2		ug/L		117	65 - 133	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: MB 480-568777/8
Matrix: Water
Analysis Batch: 568777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/09/21 12:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/09/21 12:25	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/09/21 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/09/21 12:25	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/09/21 12:25	1

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

Lab Sample ID: MB 480-568777/8
Matrix: Water
Analysis Batch: 568777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/09/21 12:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/09/21 12:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/09/21 12:25	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/09/21 12:25	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/09/21 12:25	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/09/21 12:25	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/09/21 12:25	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/09/21 12:25	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/09/21 12:25	1
2-Hexanone	ND		5.0	1.2	ug/L			02/09/21 12:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/09/21 12:25	1
Acetone	ND		10	3.0	ug/L			02/09/21 12:25	1
Benzene	ND		1.0	0.41	ug/L			02/09/21 12:25	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/09/21 12:25	1
Bromoform	ND		1.0	0.26	ug/L			02/09/21 12:25	1
Bromomethane	ND		1.0	0.69	ug/L			02/09/21 12:25	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/09/21 12:25	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/09/21 12:25	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/09/21 12:25	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/09/21 12:25	1
Chloroethane	ND		1.0	0.32	ug/L			02/09/21 12:25	1
Chloroform	ND		1.0	0.34	ug/L			02/09/21 12:25	1
Chloromethane	ND		1.0	0.35	ug/L			02/09/21 12:25	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/09/21 12:25	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/09/21 12:25	1
Cyclohexane	ND		1.0	0.18	ug/L			02/09/21 12:25	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/09/21 12:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/09/21 12:25	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/09/21 12:25	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/09/21 12:25	1
Methyl acetate	ND		2.5	1.3	ug/L			02/09/21 12:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/09/21 12:25	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/09/21 12:25	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/09/21 12:25	1
Styrene	ND		1.0	0.73	ug/L			02/09/21 12:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/09/21 12:25	1
Toluene	ND		1.0	0.51	ug/L			02/09/21 12:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/09/21 12:25	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/09/21 12:25	1
Trichloroethene	ND		1.0	0.46	ug/L			02/09/21 12:25	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/09/21 12:25	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/09/21 12:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/09/21 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/09/21 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*02/09/21 12:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*02/09/21 12:25*	*1*

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

Lab Sample ID: MB 480-568777/8
Matrix: Water
Analysis Batch: 568777

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		75 - 123		02/09/21 12:25	1

Lab Sample ID: LCS 480-568777/5
Matrix: Water
Analysis Batch: 568777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	76 - 120
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.8		ug/L		103	61 - 148
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	24.4		ug/L		98	66 - 127
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.0		ug/L		104	56 - 134
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	24.5		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 120
2-Butanone (MEK)	125	134		ug/L		107	57 - 140
2-Hexanone	125	128		ug/L		103	65 - 127
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	125		ug/L		100	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	25.8		ug/L		103	80 - 122
Bromoform	25.0	27.9		ug/L		112	61 - 132
Bromomethane	25.0	23.4		ug/L		94	55 - 144
Carbon disulfide	25.0	23.5		ug/L		94	59 - 134
Carbon tetrachloride	25.0	25.7		ug/L		103	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	80 - 120
Dibromochloromethane	25.0	26.4		ug/L		106	75 - 125
Chloroethane	25.0	21.6		ug/L		86	69 - 136
Chloroform	25.0	23.4		ug/L		94	73 - 127
Chloromethane	25.0	25.1		ug/L		100	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	74 - 124
Cyclohexane	25.0	25.6		ug/L		102	59 - 135
Dichlorodifluoromethane	25.0	27.3		ug/L		109	59 - 135
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
Isopropylbenzene	25.0	25.1		ug/L		100	77 - 122
Methyl acetate	50.0	48.9		ug/L		98	74 - 133
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120
Methylcyclohexane	25.0	25.2		ug/L		101	68 - 134
Methylene Chloride	25.0	22.5		ug/L		90	75 - 124
Styrene	25.0	24.5		ug/L		98	80 - 120
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122

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

Lab Sample ID: LCS 480-568777/5
Matrix: Water
Analysis Batch: 568777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	24.1		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		99	80 - 120
Trichloroethene	25.0	24.8		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	25.8		ug/L		103	62 - 150
Vinyl chloride	25.0	25.0		ug/L		100	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: MB 480-569089/7
Matrix: Water
Analysis Batch: 569089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/11/21 10:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/11/21 10:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/11/21 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/11/21 10:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/11/21 10:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/11/21 10:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/11/21 10:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/11/21 10:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/11/21 10:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/11/21 10:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/11/21 10:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/11/21 10:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/11/21 10:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/11/21 10:58	1
2-Hexanone	ND		5.0	1.2	ug/L			02/11/21 10:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/11/21 10:58	1
Acetone	ND		10	3.0	ug/L			02/11/21 10:58	1
Benzene	ND		1.0	0.41	ug/L			02/11/21 10:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/11/21 10:58	1
Bromoform	ND		1.0	0.26	ug/L			02/11/21 10:58	1
Bromomethane	ND		1.0	0.69	ug/L			02/11/21 10:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/11/21 10:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/11/21 10:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/11/21 10:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/11/21 10:58	1
Chloroethane	ND		1.0	0.32	ug/L			02/11/21 10:58	1
Chloroform	ND		1.0	0.34	ug/L			02/11/21 10:58	1
Chloromethane	ND		1.0	0.35	ug/L			02/11/21 10:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/11/21 10:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/11/21 10:58	1

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

Lab Sample ID: MB 480-569089/7
Matrix: Water
Analysis Batch: 569089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			02/11/21 10:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/11/21 10:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/11/21 10:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/11/21 10:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/11/21 10:58	1
Methyl acetate	ND		2.5	1.3	ug/L			02/11/21 10:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/11/21 10:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/11/21 10:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/11/21 10:58	1
Styrene	ND		1.0	0.73	ug/L			02/11/21 10:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/11/21 10:58	1
Toluene	ND		1.0	0.51	ug/L			02/11/21 10:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/11/21 10:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/11/21 10:58	1
Trichloroethene	ND		1.0	0.46	ug/L			02/11/21 10:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/11/21 10:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/11/21 10:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/11/21 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/11/21 10:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*02/11/21 10:58*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*02/11/21 10:58*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*02/11/21 10:58*	*1*

Lab Sample ID: LCS 480-569089/5
Matrix: Water
Analysis Batch: 569089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	76 - 120
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.8		ug/L		103	61 - 148
1,1-Dichloroethane	25.0	24.8		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	56 - 134
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 120
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Hexanone	125	121		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	71 - 125
Acetone	125	103		ug/L		83	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124

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

Lab Sample ID: LCS 480-569089/5
Matrix: Water
Analysis Batch: 569089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	25.0	24.6		ug/L		99	80 - 122
Bromoform	25.0	25.2		ug/L		101	61 - 132
Bromomethane	25.0	25.6		ug/L		102	55 - 144
Carbon disulfide	25.0	26.0		ug/L		104	59 - 134
Carbon tetrachloride	25.0	23.7		ug/L		95	72 - 134
Chlorobenzene	25.0	24.4		ug/L		97	80 - 120
Dibromochloromethane	25.0	25.2		ug/L		101	75 - 125
Chloroethane	25.0	26.2		ug/L		105	69 - 136
Chloroform	25.0	22.6		ug/L		91	73 - 127
Chloromethane	25.0	24.1		ug/L		96	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	74 - 124
Cyclohexane	25.0	25.1		ug/L		100	59 - 135
Dichlorodifluoromethane	25.0	23.5		ug/L		94	59 - 135
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
1,2-Dibromoethane	25.0	25.1		ug/L		100	77 - 120
Isopropylbenzene	25.0	25.4		ug/L		102	77 - 122
Methyl acetate	50.0	45.5		ug/L		91	74 - 133
Methyl tert-butyl ether	25.0	25.0		ug/L		100	77 - 120
Methylcyclohexane	25.0	26.1		ug/L		104	68 - 134
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	25.6		ug/L		102	80 - 120
Tetrachloroethene	25.0	24.1		ug/L		96	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	24.3		ug/L		97	62 - 150
Vinyl chloride	25.0	28.2		ug/L		113	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*

Lab Sample ID: MB 480-569114/7
Matrix: Water
Analysis Batch: 569114

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/11/21 11:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/11/21 11:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/11/21 11:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/11/21 11:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/11/21 11:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/11/21 11:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/11/21 11:59	1

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

Lab Sample ID: MB 480-569114/7
Matrix: Water
Analysis Batch: 569114

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/11/21 11:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/11/21 11:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/11/21 11:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/11/21 11:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/11/21 11:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/11/21 11:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/11/21 11:59	1
2-Hexanone	ND		5.0	1.2	ug/L			02/11/21 11:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/11/21 11:59	1
Acetone	ND		10	3.0	ug/L			02/11/21 11:59	1
Benzene	ND		1.0	0.41	ug/L			02/11/21 11:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/11/21 11:59	1
Bromoform	ND		1.0	0.26	ug/L			02/11/21 11:59	1
Bromomethane	ND		1.0	0.69	ug/L			02/11/21 11:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/11/21 11:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/11/21 11:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/11/21 11:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/11/21 11:59	1
Chloroethane	ND		1.0	0.32	ug/L			02/11/21 11:59	1
Chloroform	ND		1.0	0.34	ug/L			02/11/21 11:59	1
Chloromethane	ND		1.0	0.35	ug/L			02/11/21 11:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/11/21 11:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/11/21 11:59	1
Cyclohexane	ND		1.0	0.18	ug/L			02/11/21 11:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/11/21 11:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/11/21 11:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/11/21 11:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/11/21 11:59	1
Methyl acetate	ND		2.5	1.3	ug/L			02/11/21 11:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/11/21 11:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/11/21 11:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/11/21 11:59	1
Styrene	ND		1.0	0.73	ug/L			02/11/21 11:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/11/21 11:59	1
Toluene	ND		1.0	0.51	ug/L			02/11/21 11:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/11/21 11:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/11/21 11:59	1
Trichloroethene	ND		1.0	0.46	ug/L			02/11/21 11:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/11/21 11:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/11/21 11:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/11/21 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/11/21 11:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/11/21 11:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*02/11/21 11:59*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/11/21 11:59*	*1*

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

Lab Sample ID: LCS 480-569114/5
Matrix: Water
Analysis Batch: 569114

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	76 - 120
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6		ug/L		103	61 - 148
1,1-Dichloroethane	25.0	24.9		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	25.5		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		103	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	56 - 134
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.6		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	25.4		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	139		ug/L		111	57 - 140
2-Hexanone	125	134		ug/L		107	65 - 127
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	71 - 125
Acetone	125	131		ug/L		105	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	25.5		ug/L		102	80 - 122
Bromoform	25.0	29.4		ug/L		118	61 - 132
Bromomethane	25.0	20.7		ug/L		83	55 - 144
Carbon disulfide	25.0	24.0		ug/L		96	59 - 134
Carbon tetrachloride	25.0	26.1		ug/L		104	72 - 134
Chlorobenzene	25.0	25.2		ug/L		101	80 - 120
Dibromochloromethane	25.0	27.5		ug/L		110	75 - 125
Chloroethane	25.0	19.6		ug/L		79	69 - 136
Chloroform	25.0	24.0		ug/L		96	73 - 127
Chloromethane	25.0	24.4		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Cyclohexane	25.0	25.3		ug/L		101	59 - 135
Dichlorodifluoromethane	25.0	25.4		ug/L		102	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
1,2-Dibromoethane	25.0	25.6		ug/L		103	77 - 120
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122
Methyl acetate	50.0	51.1		ug/L		102	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	25.2		ug/L		101	68 - 134
Methylene Chloride	25.0	22.0		ug/L		88	75 - 124
Styrene	25.0	25.6		ug/L		103	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	80 - 120
Trichloroethene	25.0	24.5		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	24.4		ug/L		98	62 - 150
Vinyl chloride	25.0	23.3		ug/L		93	65 - 133

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

Lab Sample ID: LCS 480-569114/5
Matrix: Water
Analysis Batch: 569114

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-568692/1-A
Matrix: Water
Analysis Batch: 568786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		02/08/21 14:57	02/09/21 12:04	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/08/21 14:57	02/09/21 12:04	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 12:04	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/08/21 14:57	02/09/21 12:04	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 12:04	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/08/21 14:57	02/09/21 12:04	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 12:04	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 12:04	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 12:04	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 12:04	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/08/21 14:57	02/09/21 12:04	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 12:04	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/08/21 14:57	02/09/21 12:04	1
2-Nitroaniline	ND		10	0.42	ug/L		02/08/21 14:57	02/09/21 12:04	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/08/21 14:57	02/09/21 12:04	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 12:04	1
3-Nitroaniline	ND		10	0.48	ug/L		02/08/21 14:57	02/09/21 12:04	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 12:04	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 12:04	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/08/21 14:57	02/09/21 12:04	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 12:04	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 12:04	1
4-Methylphenol	ND		10	0.36	ug/L		02/08/21 14:57	02/09/21 12:04	1
4-Nitroaniline	ND		10	0.25	ug/L		02/08/21 14:57	02/09/21 12:04	1
4-Nitrophenol	ND		10	1.5	ug/L		02/08/21 14:57	02/09/21 12:04	1
Acenaphthene	ND		5.0	0.41	ug/L		02/08/21 14:57	02/09/21 12:04	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/08/21 14:57	02/09/21 12:04	1
Acetophenone	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 12:04	1
Anthracene	ND		5.0	0.28	ug/L		02/08/21 14:57	02/09/21 12:04	1
Atrazine	ND		5.0	0.46	ug/L		02/08/21 14:57	02/09/21 12:04	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/08/21 14:57	02/09/21 12:04	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 12:04	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 12:04	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 12:04	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 12:04	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/08/21 14:57	02/09/21 12:04	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/08/21 14:57	02/09/21 12:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-568692/1-A
Matrix: Water
Analysis Batch: 568786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 12:04	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 12:04	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/08/21 14:57	02/09/21 12:04	1
Caprolactam	ND		5.0	2.2	ug/L		02/08/21 14:57	02/09/21 12:04	1
Carbazole	ND		5.0	0.30	ug/L		02/08/21 14:57	02/09/21 12:04	1
Chrysene	ND		5.0	0.33	ug/L		02/08/21 14:57	02/09/21 12:04	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/08/21 14:57	02/09/21 12:04	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/08/21 14:57	02/09/21 12:04	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 12:04	1
Dibenzofuran	ND		10	0.51	ug/L		02/08/21 14:57	02/09/21 12:04	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/08/21 14:57	02/09/21 12:04	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 12:04	1
Fluoranthene	ND		5.0	0.40	ug/L		02/08/21 14:57	02/09/21 12:04	1
Fluorene	ND		5.0	0.36	ug/L		02/08/21 14:57	02/09/21 12:04	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 12:04	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/08/21 14:57	02/09/21 12:04	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 12:04	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/08/21 14:57	02/09/21 12:04	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/08/21 14:57	02/09/21 12:04	1
Isophorone	ND		5.0	0.43	ug/L		02/08/21 14:57	02/09/21 12:04	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/08/21 14:57	02/09/21 12:04	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/08/21 14:57	02/09/21 12:04	1
Naphthalene	ND		5.0	0.76	ug/L		02/08/21 14:57	02/09/21 12:04	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/08/21 14:57	02/09/21 12:04	1
Pentachlorophenol	ND		10	2.2	ug/L		02/08/21 14:57	02/09/21 12:04	1
Phenanthrene	ND		5.0	0.44	ug/L		02/08/21 14:57	02/09/21 12:04	1
Phenol	ND		5.0	0.39	ug/L		02/08/21 14:57	02/09/21 12:04	1
Pyrene	ND		5.0	0.34	ug/L		02/08/21 14:57	02/09/21 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*102*		*46 - 120*	*02/08/21 14:57*	*02/09/21 12:04*	*1*
Phenol-d5 (Surr)	*48*		*22 - 120*	*02/08/21 14:57*	*02/09/21 12:04*	*1*
p-Terphenyl-d14 (Surr)	*108*		*60 - 148*	*02/08/21 14:57*	*02/09/21 12:04*	*1*
2,4,6-Tribromophenol (Surr)	*105*		*41 - 120*	*02/08/21 14:57*	*02/09/21 12:04*	*1*
2-Fluorobiphenyl	*103*		*48 - 120*	*02/08/21 14:57*	*02/09/21 12:04*	*1*
2-Fluorophenol (Surr)	*68*		*35 - 120*	*02/08/21 14:57*	*02/09/21 12:04*	*1*

Lab Sample ID: LCS 480-568692/2-A
Matrix: Water
Analysis Batch: 568786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	32.0	30.7		ug/L		96	59 - 120
bis (2-chloroisopropyl) ether	32.0	36.8		ug/L		115	21 - 136
2,4,5-Trichlorophenol	32.0	35.3		ug/L		110	65 - 126
2,4,6-Trichlorophenol	32.0	30.3		ug/L		95	64 - 120
2,4-Dichlorophenol	32.0	31.2		ug/L		97	63 - 120
2,4-Dimethylphenol	32.0	33.0		ug/L		103	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-568692/2-A
Matrix: Water
Analysis Batch: 568786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	64.0	67.3		ug/L		105	31 - 137
2,4-Dinitrotoluene	32.0	34.1		ug/L		106	69 - 120
2,6-Dinitrotoluene	32.0	31.1		ug/L		97	68 - 120
2-Chloronaphthalene	32.0	31.7		ug/L		99	58 - 120
2-Chlorophenol	32.0	29.7		ug/L		93	48 - 120
2-Methylphenol	32.0	34.7		ug/L		109	39 - 120
2-Methylnaphthalene	32.0	31.0		ug/L		97	59 - 120
2-Nitroaniline	32.0	35.3		ug/L		110	54 - 127
2-Nitrophenol	32.0	30.1		ug/L		94	52 - 125
3,3'-Dichlorobenzidine	64.0	70.0		ug/L		109	49 - 135
3-Nitroaniline	32.0	28.2		ug/L		88	51 - 120
4,6-Dinitro-2-methylphenol	64.0	68.2		ug/L		107	46 - 136
4-Bromophenyl phenyl ether	32.0	35.0		ug/L		109	65 - 120
4-Chloro-3-methylphenol	32.0	29.8		ug/L		93	61 - 123
4-Chloroaniline	32.0	25.9		ug/L		81	30 - 120
4-Chlorophenyl phenyl ether	32.0	34.0		ug/L		106	62 - 120
4-Methylphenol	32.0	29.4		ug/L		92	29 - 131
4-Nitroaniline	32.0	31.6		ug/L		99	65 - 120
4-Nitrophenol	64.0	53.1		ug/L		83	45 - 120
Acenaphthene	32.0	32.3		ug/L		101	60 - 120
Acenaphthylene	32.0	32.9		ug/L		103	63 - 120
Acetophenone	32.0	33.3		ug/L		104	45 - 120
Anthracene	32.0	34.0		ug/L		106	67 - 120
Atrazine	64.0	73.4		ug/L		115	71 - 130
Benzaldehyde	64.0	65.7		ug/L		103	10 - 140
Benzo[a]anthracene	32.0	33.6		ug/L		105	70 - 121
Benzo[a]pyrene	32.0	30.8		ug/L		96	60 - 123
Benzo[b]fluoranthene	32.0	33.2		ug/L		104	66 - 126
Benzo[g,h,i]perylene	32.0	34.5		ug/L		108	66 - 150
Benzo[k]fluoranthene	32.0	35.1		ug/L		110	65 - 124
Bis(2-chloroethoxy)methane	32.0	31.6		ug/L		99	50 - 128
Bis(2-chloroethyl)ether	32.0	32.0		ug/L		100	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	32.2		ug/L		101	63 - 139
Butyl benzyl phthalate	32.0	31.0		ug/L		97	70 - 129
Caprolactam	64.0	24.5		ug/L		38	22 - 120
Carbazole	32.0	36.5		ug/L		114	66 - 123
Chrysene	32.0	34.9		ug/L		109	69 - 120
Dibenz(a,h)anthracene	32.0	34.1		ug/L		107	65 - 135
Di-n-butyl phthalate	32.0	35.3		ug/L		110	69 - 131
Di-n-octyl phthalate	32.0	33.2		ug/L		104	63 - 140
Dibenzofuran	32.0	33.0		ug/L		103	66 - 120
Diethyl phthalate	32.0	35.6		ug/L		111	59 - 127
Dimethyl phthalate	32.0	34.3		ug/L		107	68 - 120
Fluoranthene	32.0	34.2		ug/L		107	69 - 126
Fluorene	32.0	34.9		ug/L		109	66 - 120
Hexachlorobenzene	32.0	37.6		ug/L		117	61 - 120
Hexachlorobutadiene	32.0	29.3		ug/L		92	35 - 120
Hexachlorocyclopentadiene	32.0	21.7		ug/L		68	31 - 120
Hexachloroethane	32.0	27.6		ug/L		86	43 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-568692/2-A
Matrix: Water
Analysis Batch: 568786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	32.0	35.6		ug/L		111	69 - 146
Isophorone	32.0	34.2		ug/L		107	55 - 120
N-Nitrosodi-n-propylamine	32.0	34.3		ug/L		107	32 - 140
N-Nitrosodiphenylamine	32.0	34.3		ug/L		107	61 - 120
Naphthalene	32.0	30.2		ug/L		95	57 - 120
Nitrobenzene	32.0	32.8		ug/L		102	53 - 123
Pentachlorophenol	64.0	64.7	E	ug/L		101	29 - 136
Phenanthrene	32.0	34.3		ug/L		107	68 - 120
Phenol	32.0	20.3		ug/L		63	17 - 120
Pyrene	32.0	33.4		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*103*		*46 - 120*
Phenol-d5 (Surr)	*58*		*22 - 120*
p-Terphenyl-d14 (Surr)	*113*		*60 - 148*
2,4,6-Tribromophenol (Surr)	*109*		*41 - 120*
2-Fluorobiphenyl	*104*		*48 - 120*
2-Fluorophenol (Surr)	*73*		*35 - 120*

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568786

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		32.0	27.0		ug/L		84	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	31.5		ug/L		98	28 - 121
2,4,5-Trichlorophenol	ND		32.0	30.7		ug/L		96	65 - 126
2,4,6-Trichlorophenol	ND		32.0	27.8		ug/L		87	64 - 120
2,4-Dichlorophenol	ND		32.0	28.0		ug/L		87	48 - 132
2,4-Dimethylphenol	ND		32.0	26.6		ug/L		83	39 - 130
2,4-Dinitrophenol	ND		64.0	63.2		ug/L		99	21 - 150
2,4-Dinitrotoluene	ND		32.0	31.2		ug/L		97	54 - 138
2,6-Dinitrotoluene	ND		32.0	30.2		ug/L		94	17 - 150
2-Chloronaphthalene	ND		32.0	27.3		ug/L		85	52 - 124
2-Chlorophenol	ND		32.0	25.8		ug/L		81	48 - 120
2-Methylphenol	ND		32.0	27.7		ug/L		86	46 - 120
2-Methylnaphthalene	ND		32.0	28.0		ug/L		87	34 - 140
2-Nitroaniline	ND		32.0	31.2		ug/L		98	44 - 136
2-Nitrophenol	ND		32.0	27.8		ug/L		87	38 - 141
3,3'-Dichlorobenzidine	ND	F2	64.0	10.9		ug/L		17	10 - 150
3-Nitroaniline	ND		32.0	21.8		ug/L		68	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	61.0		ug/L		95	38 - 150
4-Bromophenyl phenyl ether	ND	F2	32.0	27.0		ug/L		84	63 - 126
4-Chloro-3-methylphenol	ND		32.0	27.7		ug/L		87	64 - 127
4-Chloroaniline	ND		32.0	15.9		ug/L		50	16 - 124
4-Chlorophenyl phenyl ether	ND	F2	32.0	27.1		ug/L		85	61 - 120
4-Methylphenol	ND		32.0	24.6		ug/L		77	36 - 120
4-Nitroaniline	ND		32.0	24.5		ug/L		77	32 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568786

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	ND		64.0	52.0		ug/L		81	23 - 132
Acenaphthene	ND		32.0	27.4		ug/L		86	48 - 120
Acenaphthylene	ND		32.0	28.6		ug/L		90	63 - 120
Acetophenone	ND		32.0	30.5		ug/L		95	53 - 120
Anthracene	ND	F2	32.0	26.3		ug/L		82	65 - 122
Atrazine	ND		64.0	56.9		ug/L		89	50 - 150
Benzaldehyde	ND		64.0	63.6		ug/L		99	10 - 150
Benzo[a]anthracene	ND	F2	32.0	19.8		ug/L		62	43 - 124
Benzo[a]pyrene	ND	F2	32.0	18.0		ug/L		56	23 - 125
Benzo[b]fluoranthene	ND	F2	32.0	17.7		ug/L		55	27 - 127
Benzo[g,h,i]perylene	ND	F2	32.0	20.5		ug/L		64	16 - 147
Benzo[k]fluoranthene	ND	F2	32.0	21.0		ug/L		66	20 - 124
Bis(2-chloroethoxy)methane	ND		32.0	29.7		ug/L		93	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	28.3		ug/L		88	45 - 120
Bis(2-ethylhexyl) phthalate	ND	F2	32.0	20.3		ug/L		63	16 - 150
Butyl benzyl phthalate	ND	F2	32.0	21.2		ug/L		66	51 - 140
Caprolactam	ND		64.0	24.4		ug/L		38	10 - 120
Carbazole	ND		32.0	31.2		ug/L		97	16 - 148
Chrysene	ND	F2	32.0	21.1		ug/L		66	44 - 122
Dibenz(a,h)anthracene	ND	F2	32.0	20.9		ug/L		65	16 - 139
Di-n-butyl phthalate	ND	F2	32.0	24.5		ug/L		77	65 - 129
Di-n-octyl phthalate	ND	F2	32.0	21.6		ug/L		67	16 - 150
Dibenzofuran	ND		32.0	29.0		ug/L		91	60 - 120
Diethyl phthalate	ND		32.0	31.0		ug/L		97	53 - 133
Dimethyl phthalate	ND		32.0	32.1		ug/L		100	59 - 123
Fluoranthene	ND	F2	32.0	21.9		ug/L		68	63 - 129
Fluorene	ND		32.0	29.4		ug/L		92	62 - 120
Hexachlorobenzene	ND	F2	32.0	24.2		ug/L		76	57 - 121
Hexachlorobutadiene	ND		32.0	23.3		ug/L		73	37 - 120
Hexachlorocyclopentadiene	ND		32.0	18.4		ug/L		58	21 - 120
Hexachloroethane	ND		32.0	25.7		ug/L		80	16 - 130
Indeno[1,2,3-cd]pyrene	ND	F2	32.0	20.0		ug/L		62	16 - 140
Isophorone	ND		32.0	30.7		ug/L		96	48 - 133
N-Nitrosodi-n-propylamine	ND		32.0	29.1		ug/L		91	49 - 120
N-Nitrosodiphenylamine	ND		32.0	24.6		ug/L		77	39 - 138
Naphthalene	ND		32.0	27.0		ug/L		84	45 - 120
Nitrobenzene	ND		32.0	31.7		ug/L		99	45 - 123
Pentachlorophenol	ND		64.0	68.9	E	ug/L		108	23 - 149
Phenanthrene	ND		32.0	28.8		ug/L		90	65 - 122
Phenol	ND		32.0	16.0		ug/L		50	16 - 120
Pyrene	ND	F2	32.0	22.6		ug/L		71	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*94*		*46 - 120*
Phenol-d5 (Surr)	*51*		*22 - 120*
p-Terphenyl-d14 (Surr)	*47*	*S1-*	*60 - 148*
2,4,6-Tribromophenol (Surr)	*106*		*41 - 120*
2-Fluorobiphenyl	*91*		*48 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568786

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568692

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*63*		*35 - 120*

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 568786

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		32.0	29.9		ug/L		93	57 - 120	10	20
bis (2-chloroisopropyl) ether	ND		32.0	30.9		ug/L		96	28 - 121	2	24
2,4,5-Trichlorophenol	ND		32.0	33.8		ug/L		106	65 - 126	10	18
2,4,6-Trichlorophenol	ND		32.0	29.1		ug/L		91	64 - 120	5	19
2,4-Dichlorophenol	ND		32.0	27.9		ug/L		87	48 - 132	0	19
2,4-Dimethylphenol	ND		32.0	26.2		ug/L		82	39 - 130	2	42
2,4-Dinitrophenol	ND		64.0	68.6		ug/L		107	21 - 150	8	22
2,4-Dinitrotoluene	ND		32.0	34.7		ug/L		108	54 - 138	11	20
2,6-Dinitrotoluene	ND		32.0	32.0		ug/L		100	17 - 150	6	15
2-Chloronaphthalene	ND		32.0	30.0		ug/L		94	52 - 124	9	21
2-Chlorophenol	ND		32.0	26.0		ug/L		81	48 - 120	1	25
2-Methylphenol	ND		32.0	30.9		ug/L		97	46 - 120	11	27
2-Methylnaphthalene	ND		32.0	28.7		ug/L		90	34 - 140	3	21
2-Nitroaniline	ND		32.0	32.7		ug/L		102	44 - 136	5	15
2-Nitrophenol	ND		32.0	29.6		ug/L		92	38 - 141	6	18
3,3'-Dichlorobenzidine	ND	F2	64.0	34.9	F2	ug/L		54	10 - 150	105	25
3-Nitroaniline	ND		32.0	20.4		ug/L		64	32 - 150	7	19
4,6-Dinitro-2-methylphenol	ND		64.0	65.2		ug/L		102	38 - 150	7	15
4-Bromophenyl phenyl ether	ND	F2	32.0	32.4	F2	ug/L		101	63 - 126	18	15
4-Chloro-3-methylphenol	ND		32.0	28.1		ug/L		88	64 - 127	1	27
4-Chloroaniline	ND		32.0	15.6		ug/L		49	16 - 124	2	22
4-Chlorophenyl phenyl ether	ND	F2	32.0	32.2	F2	ug/L		101	61 - 120	17	16
4-Methylphenol	ND		32.0	26.5		ug/L		83	36 - 120	7	24
4-Nitroaniline	ND		32.0	30.5		ug/L		95	32 - 150	22	24
4-Nitrophenol	ND		64.0	59.6		ug/L		93	23 - 132	14	48
Acenaphthene	ND		32.0	30.0		ug/L		94	48 - 120	9	24
Acenaphthylene	ND		32.0	30.5		ug/L		95	63 - 120	6	18
Acetophenone	ND		32.0	29.7		ug/L		93	53 - 120	3	20
Anthracene	ND	F2	32.0	30.9	F2	ug/L		96	65 - 122	16	15
Atrazine	ND		64.0	68.1		ug/L		106	50 - 150	18	20
Benzaldehyde	ND		64.0	60.7		ug/L		95	10 - 150	5	20
Benzo[a]anthracene	ND	F2	32.0	26.2	F2	ug/L		82	43 - 124	28	15
Benzo[a]pyrene	ND	F2	32.0	23.5	F2	ug/L		73	23 - 125	26	15
Benzo[b]fluoranthene	ND	F2	32.0	26.3	F2	ug/L		82	27 - 127	39	15
Benzo[g,h,i]perylene	ND	F2	32.0	26.5	F2	ug/L		83	16 - 147	26	15
Benzo[k]fluoranthene	ND	F2	32.0	26.8	F2	ug/L		84	20 - 124	24	22
Bis(2-chloroethoxy)methane	ND		32.0	28.5		ug/L		89	44 - 128	4	17
Bis(2-chloroethyl)ether	ND		32.0	28.2		ug/L		88	45 - 120	0	21
Bis(2-ethylhexyl) phthalate	ND	F2	32.0	24.6	F2	ug/L		77	16 - 150	19	15
Butyl benzyl phthalate	ND	F2	32.0	26.6	F2	ug/L		83	51 - 140	22	16
Caprolactam	ND		64.0	22.8		ug/L		36	10 - 120	7	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 568786

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbazole	ND		32.0	31.8		ug/L		99	16 - 148	2	20
Chrysene	ND	F2	32.0	25.4	F2	ug/L		79	44 - 122	18	15
Dibenz(a,h)anthracene	ND	F2	32.0	26.8	F2	ug/L		84	16 - 139	25	15
Di-n-butyl phthalate	ND	F2	32.0	30.8	F2	ug/L		96	65 - 129	23	15
Di-n-octyl phthalate	ND	F2	32.0	26.5	F2	ug/L		83	16 - 150	20	16
Dibenzofuran	ND		32.0	31.7		ug/L		99	60 - 120	9	15
Diethyl phthalate	ND		32.0	33.6		ug/L		105	53 - 133	8	15
Dimethyl phthalate	ND		32.0	33.4		ug/L		104	59 - 123	4	15
Fluoranthene	ND	F2	32.0	29.3	F2	ug/L		92	63 - 129	29	15
Fluorene	ND		32.0	32.7		ug/L		102	62 - 120	11	15
Hexachlorobenzene	ND	F2	32.0	33.5	F2	ug/L		105	57 - 121	32	15
Hexachlorobutadiene	ND		32.0	26.5		ug/L		83	37 - 120	13	44
Hexachlorocyclopentadiene	ND		32.0	23.5		ug/L		73	21 - 120	24	49
Hexachloroethane	ND		32.0	23.8		ug/L		74	16 - 130	8	46
Indeno[1,2,3-cd]pyrene	ND	F2	32.0	26.7	F2	ug/L		84	16 - 140	29	15
Isophorone	ND		32.0	30.3		ug/L		95	48 - 133	1	17
N-Nitrosodi-n-propylamine	ND		32.0	28.9		ug/L		90	49 - 120	1	31
N-Nitrosodiphenylamine	ND		32.0	28.0		ug/L		88	39 - 138	13	15
Naphthalene	ND		32.0	27.9		ug/L		87	45 - 120	3	29
Nitrobenzene	ND		32.0	31.7		ug/L		99	45 - 123	0	24
Pentachlorophenol	ND		64.0	73.5	E	ug/L		115	23 - 149	6	37
Phenanthrene	ND		32.0	32.4		ug/L		101	65 - 122	12	15
Phenol	ND		32.0	15.6		ug/L		49	16 - 120	3	34
Pyrene	ND	F2	32.0	28.5	F2	ug/L		89	58 - 128	23	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*94*		*46 - 120*
Phenol-d5 (Surr)	*53*		*22 - 120*
p-Terphenyl-d14 (Surr)	*72*		*60 - 148*
2,4,6-Tribromophenol (Surr)	*114*		*41 - 120*
2-Fluorobiphenyl	*98*		*48 - 120*
2-Fluorophenol (Surr)	*63*		*35 - 120*

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

Lab Sample ID: MB 480-568697/1-A
Matrix: Water
Analysis Batch: 568807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/08/21 15:07	02/09/21 13:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*02/08/21 15:07*	*02/09/21 13:28*	*1*

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

Lab Sample ID: LCS 480-568697/2-A
Matrix: Water
Analysis Batch: 568807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568697

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	1.06		ug/L		106	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*30*		*15 - 110*

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568807

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	ND	F1	1.00	1.47	F1	ug/L		147	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*29*		*15 - 110*

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 568807

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND	F1	1.00	1.47	F1	ug/L		147	40 - 140	0	20

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

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-568839/1-A
Matrix: Water
Analysis Batch: 568888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		02/09/21 15:24	02/10/21 10:25	1
4,4'-DDE	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 10:25	1
4,4'-DDT	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 10:25	1
Aldrin	ND		0.050	0.0081	ug/L		02/09/21 15:24	02/10/21 10:25	1
alpha-BHC	ND		0.050	0.0077	ug/L		02/09/21 15:24	02/10/21 10:25	1
cis-Chlordane	ND		0.050	0.015	ug/L		02/09/21 15:24	02/10/21 10:25	1
beta-BHC	ND		0.050	0.025	ug/L		02/09/21 15:24	02/10/21 10:25	1
delta-BHC	0.0136	J	0.050	0.010	ug/L		02/09/21 15:24	02/10/21 10:25	1
Dieldrin	ND		0.050	0.0098	ug/L		02/09/21 15:24	02/10/21 10:25	1
Endosulfan I	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 10:25	1
Endosulfan II	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 10:25	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 10:25	1
Endrin	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 10:25	1
Endrin aldehyde	ND		0.050	0.016	ug/L		02/09/21 15:24	02/10/21 10:25	1
Endrin ketone	ND		0.050	0.012	ug/L		02/09/21 15:24	02/10/21 10:25	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		02/09/21 15:24	02/10/21 10:25	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-568839/1-A
Matrix: Water
Analysis Batch: 568888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		0.050	0.011	ug/L		02/09/21 15:24	02/10/21 10:25	1
Heptachlor	ND		0.050	0.0085	ug/L		02/09/21 15:24	02/10/21 10:25	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		02/09/21 15:24	02/10/21 10:25	1
Methoxychlor	ND		0.050	0.014	ug/L		02/09/21 15:24	02/10/21 10:25	1
Toxaphene	ND		0.50	0.12	ug/L		02/09/21 15:24	02/10/21 10:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*20 - 120*	*02/09/21 15:24*	*02/10/21 10:25*	*1*
Tetrachloro-m-xylene	*105*		*44 - 120*	*02/09/21 15:24*	*02/10/21 10:25*	*1*

Lab Sample ID: LCS 480-568839/2-A
Matrix: Water
Analysis Batch: 568888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.457		ug/L		114	64 - 129
4,4'-DDE	0.400	0.365		ug/L		91	50 - 120
4,4'-DDT	0.400	0.425		ug/L		106	59 - 120
Aldrin	0.400	0.322		ug/L		81	40 - 125
alpha-BHC	0.400	0.351		ug/L		88	52 - 125
cis-Chlordane	0.400	0.393		ug/L		98	52 - 120
beta-BHC	0.400	0.443		ug/L		111	51 - 120
delta-BHC	0.400	0.387		ug/L		97	51 - 120
Dieldrin	0.400	0.413		ug/L		103	66 - 128
Endosulfan I	0.400	0.403		ug/L		101	57 - 120
Endosulfan II	0.400	0.479		ug/L		120	66 - 131
Endosulfan sulfate	0.400	0.542		ug/L		135	66 - 136
Endrin	0.400	0.437		ug/L		109	65 - 135
Endrin aldehyde	0.400	0.439		ug/L		110	61 - 134
Endrin ketone	0.400	0.477		ug/L		119	71 - 133
gamma-BHC (Lindane)	0.400	0.390		ug/L		98	56 - 120
trans-Chlordane	0.400	0.399		ug/L		100	54 - 120
Heptachlor	0.400	0.355		ug/L		89	58 - 120
Heptachlor epoxide	0.400	0.418		ug/L		104	65 - 125
Methoxychlor	0.400	0.452		ug/L		113	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*		*20 - 120*
Tetrachloro-m-xylene	*100*		*44 - 120*

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568888

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.400	0.349		ug/L		87	57 - 130
4,4'-DDE	ND	F2	0.400	0.202		ug/L		50	39 - 120
4,4'-DDT	ND	F2	0.400	0.226		ug/L		56	37 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 568888

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		0.400	0.237		ug/L		59	39 - 125
alpha-BHC	ND		0.400	0.369		ug/L		92	48 - 120
cis-Chlordane	ND		0.400	0.325		ug/L		81	44 - 120
beta-BHC	ND	F1	0.400	0.457		ug/L		114	49 - 120
delta-BHC	0.018	J B	0.400	0.404		ug/L		97	50 - 120
Dieldrin	ND		0.400	0.400		ug/L		100	56 - 130
Endosulfan I	ND		0.400	0.404		ug/L		101	40 - 126
Endosulfan II	ND		0.400	0.487		ug/L		122	59 - 140
Endosulfan sulfate	ND	F1	0.400	0.554	F1	ug/L		138	60 - 134
Endrin	ND		0.400	0.429		ug/L		107	54 - 135
Endrin aldehyde	ND		0.400	0.443		ug/L		111	50 - 142
Endrin ketone	ND		0.400	0.493		ug/L		123	57 - 138
gamma-BHC (Lindane)	ND		0.400	0.410		ug/L		102	50 - 120
trans-Chlordane	ND		0.400	0.315		ug/L		79	42 - 120
Heptachlor	ND		0.400	0.310		ug/L		77	56 - 120
Heptachlor epoxide	ND		0.400	0.414		ug/L		104	58 - 125
Methoxychlor	ND		0.400	0.346		ug/L		86	40 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*35*		*20 - 120*
Tetrachloro-m-xylene	*107*		*44 - 120*

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 568888

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.400	0.416		ug/L		104	57 - 130	18	23
4,4'-DDE	ND	F2	0.400	0.274	F2	ug/L		68	39 - 120	30	22
4,4'-DDT	ND	F2	0.400	0.346	F2	ug/L		87	37 - 130	42	24
Aldrin	ND		0.400	0.277		ug/L		69	39 - 125	16	25
alpha-BHC	ND		0.400	0.329		ug/L		82	48 - 120	11	24
cis-Chlordane	ND		0.400	0.359		ug/L		90	44 - 120	10	23
beta-BHC	ND	F1	0.400	0.524	F1	ug/L		131	49 - 120	14	24
delta-BHC	0.018	J B	0.400	0.393		ug/L		94	50 - 120	3	24
Dieldrin	ND		0.400	0.400		ug/L		100	56 - 130	0	24
Endosulfan I	ND		0.400	0.396		ug/L		99	40 - 126	2	30
Endosulfan II	ND		0.400	0.484		ug/L		121	59 - 140	1	40
Endosulfan sulfate	ND	F1	0.400	0.531		ug/L		133	60 - 134	4	24
Endrin	ND		0.400	0.422		ug/L		106	54 - 135	2	24
Endrin aldehyde	ND		0.400	0.408		ug/L		102	50 - 142	8	28
Endrin ketone	ND		0.400	0.482		ug/L		120	57 - 138	2	26
gamma-BHC (Lindane)	ND		0.400	0.380		ug/L		95	50 - 120	8	24
trans-Chlordane	ND		0.400	0.369		ug/L		92	42 - 120	16	24
Heptachlor	ND		0.400	0.329		ug/L		82	56 - 120	6	25
Heptachlor epoxide	ND		0.400	0.419		ug/L		105	58 - 125	1	23
Methoxychlor	ND		0.400	0.440		ug/L		110	40 - 150	24	26

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 568888

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568839

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	47		20 - 120
Tetrachloro-m-xylene	148	S1+	44 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-568874/1-A
Matrix: Water
Analysis Batch: 569002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 19:16	1
PCB-1221	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 19:16	1
PCB-1232	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 19:16	1
PCB-1242	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 19:16	1
PCB-1248	ND		0.50	0.18	ug/L		02/10/21 07:35	02/10/21 19:16	1
PCB-1254	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 19:16	1
PCB-1260	ND		0.50	0.25	ug/L		02/10/21 07:35	02/10/21 19:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		39 - 121	02/10/21 07:35	02/10/21 19:16	1
DCB Decachlorobiphenyl	57		19 - 120	02/10/21 07:35	02/10/21 19:16	1

Lab Sample ID: LCS 480-568874/2-A
Matrix: Water
Analysis Batch: 569002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568874

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	4.25		ug/L		106	62 - 130		
PCB-1260			4.00	3.59		ug/L		90	56 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		39 - 121
DCB Decachlorobiphenyl	50		19 - 120

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 569002

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		4.00	3.70		ug/L		92	28 - 150		
PCB-1260	ND		4.00	1.44		ug/L		36	25 - 131		

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	78		39 - 121
DCB Decachlorobiphenyl	25		19 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 569002

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.00	3.98		ug/L		100	28 - 150	8	50
PCB-1260	ND		4.00	1.85		ug/L		46	25 - 131	25	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*39 - 121*
DCB Decachlorobiphenyl	*34*		*19 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-569009/1-A
Matrix: Water
Analysis Batch: 569173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/10/21 15:10	02/11/21 18:39	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/10/21 15:10	02/11/21 18:39	1
2,4-D	ND		0.50	0.17	ug/L		02/10/21 15:10	02/11/21 18:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*64*		*48 - 132*	*02/10/21 15:10*	*02/11/21 18:39*	*1*
2,4-Dichlorophenylacetic acid	*67*		*48 - 132*	*02/10/21 15:10*	*02/11/21 18:39*	*1*

Lab Sample ID: LCS 480-569009/2-A
Matrix: Water
Analysis Batch: 569173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	2.00	1.73		ug/L		86	41 - 150
Silvex (2,4,5-TP)	2.00	1.72		ug/L		86	49 - 150
2,4-D	2.00	1.63		ug/L		81	36 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*68*		*48 - 132*
2,4-Dichlorophenylacetic acid	*60*		*48 - 132*

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 569173

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 569009

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	ND		2.00	1.57		ug/L		78	34 - 138
Silvex (2,4,5-TP)	ND		2.00	1.52		ug/L		76	25 - 146
2,4-D	ND		2.00	1.29		ug/L		65	31 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*56*		*48 - 132*
2,4-Dichlorophenylacetic acid	*54*		*48 - 132*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 569173

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 569009

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		2.00	1.65		ug/L		83	34 - 138	5	50
Silvex (2,4,5-TP)	ND		2.00	1.61		ug/L		80	25 - 146	6	50
2,4-D	ND		2.00	1.43		ug/L		72	31 - 150	10	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*67*		*48 - 132*
2,4-Dichlorophenylacetic acid	*65*		*48 - 132*

Lab Sample ID: MB 480-569472/1-A
Matrix: Water
Analysis Batch: 569890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		02/15/21 09:22	02/18/21 08:35	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		02/15/21 09:22	02/18/21 08:35	1
2,4-D	ND		0.50	0.17	ug/L		02/15/21 09:22	02/18/21 08:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*48 - 132*	*02/15/21 09:22*	*02/18/21 08:35*	*1*
2,4-Dichlorophenylacetic acid	*74*		*48 - 132*	*02/15/21 09:22*	*02/18/21 08:35*	*1*

Lab Sample ID: LCS 480-569472/2-A
Matrix: Water
Analysis Batch: 569890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	2.00	1.88		ug/L		94	41 - 150
Silvex (2,4,5-TP)	2.00	1.96		ug/L		98	49 - 150
2,4-D	2.00	1.99		ug/L		100	36 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*77*		*48 - 132*
2,4-Dichlorophenylacetic acid	*65*		*48 - 132*

Lab Sample ID: LCSD 480-569472/3-A
Matrix: Water
Analysis Batch: 569890

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 569472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	2.00	1.23		ug/L		62	41 - 150	42	50
Silvex (2,4,5-TP)	2.00	1.18		ug/L		59	49 - 150	50	50
2,4-D	2.00	1.50		ug/L		75	36 - 150	28	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*44*	*S1-*	*48 - 132*
2,4-Dichlorophenylacetic acid	*55*		*48 - 132*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-460901/1-A
Matrix: Water
Analysis Batch: 461095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.00		5.00	2.40	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluoropentanoic acid (PFPeA)	2.00		2.00	0.49	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorohexanoic acid (PFHxA)	2.00		2.00	0.58	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluoroheptanoic acid (PFHpA)	2.00		2.00	0.25	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorooctanoic acid (PFOA)	2.00		2.00	0.85	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorononanoic acid (PFNA)	2.00		2.00	0.27	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorodecanoic acid (PFDA)	2.00		2.00	0.31	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluoroundecanoic acid (PFUnA)	2.00		2.00	1.10	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorododecanoic acid (PFDoA)	2.00		2.00	0.55	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorotridecanoic acid (PFTriA)	2.00		2.00	1.30	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorotetradecanoic acid (PFTeA)	2.00		2.00	0.73	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorobutanesulfonic acid (PFBS)	2.00		2.00	0.20	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorohexanesulfonic acid (PFHxS)	2.00		2.00	0.57	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.00		2.00	0.19	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorooctanesulfonic acid (PFOS)	2.00		2.00	0.54	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorodecanesulfonic acid (PFDS)	2.00		2.00	0.32	ng/L		02/10/21 18:51	02/11/21 08:53	1
Perfluorooctanesulfonamide (FOSA)	2.00		2.00	0.98	ng/L		02/10/21 18:51	02/11/21 08:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00		5.00	1.20	ng/L		02/10/21 18:51	02/11/21 08:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00		5.00	1.30	ng/L		02/10/21 18:51	02/11/21 08:53	1
6:2 FTS	5.00		5.00	2.50	ng/L		02/10/21 18:51	02/11/21 08:53	1
8:2 FTS	2.00		2.00	0.46	ng/L		02/10/21 18:51	02/11/21 08:53	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C5 PFPeA	*87*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C2 PFHxA	*94*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C4 PFHpA	*90*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C4 PFOA	*102*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C5 PFNA	*91*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C2 PFDA	*90*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C2 PFUnA	*89*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C2 PFDoA	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C2 PFTeDA	*68*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C3 PFBS	*86*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
18O2 PFHxS	*86*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C4 PFOS	*87*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
13C8 FOSA	*82*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
d3-NMeFOSAA	*90*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
d5-NEtFOSAA	*78*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
M2-6:2 FTS	*92*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*
M2-8:2 FTS	*110*		*25 - 150*	*02/10/21 18:51*	*02/11/21 08:53*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-460901/2-A
Matrix: Water
Analysis Batch: 461095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.60		ng/L		109	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	40.67		ng/L		102	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	43.59		ng/L		109	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	44.93		ng/L		112	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	37.83		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	40.0	45.12		ng/L		113	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	45.09		ng/L		113	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	41.35		ng/L		103	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	44.73		ng/L		112	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	39.22		ng/L		98	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	41.18		ng/L		103	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	39.68		ng/L		112	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.86		ng/L		101	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	45.52		ng/L		120	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	41.81		ng/L		113	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	45.69		ng/L		118	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	44.65		ng/L		112	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.49		ng/L		101	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	45.74		ng/L		114	76 - 136
6:2 FTS	37.9	42.59		ng/L		112	59 - 175
8:2 FTS	38.3	43.87		ng/L		114	75 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*89*		*25 - 150*
13C5 PFPeA	*86*		*25 - 150*
13C2 PFHxA	*94*		*25 - 150*
13C4 PFHpA	*94*		*25 - 150*
13C4 PFOA	*106*		*25 - 150*
13C5 PFNA	*95*		*25 - 150*
13C2 PFDA	*95*		*25 - 150*
13C2 PFUnA	*110*		*25 - 150*
13C2 PFDoA	*96*		*25 - 150*
13C2 PFTeDA	*92*		*25 - 150*
13C3 PFBS	*84*		*25 - 150*
18O2 PFHxS	*89*		*25 - 150*
13C4 PFOS	*85*		*25 - 150*
13C8 FOSA	*85*		*25 - 150*
d3-NMeFOSAA	*93*		*25 - 150*
d5-NEtFOSAA	*81*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-460901/2-A
Matrix: Water
Analysis Batch: 461095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460901

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	*88*		*25 - 150*
M2-8:2 FTS	*103*		*25 - 150*

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 461095

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 460901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	3.14	J	36.3	35.00		ng/L		88	76 - 136
Perfluoropentanoic acid (PFPeA)	0.54	J	36.3	38.98		ng/L		106	71 - 131
Perfluorohexanoic acid (PFHxA)	1.82		36.3	37.73		ng/L		104	73 - 133
Perfluoroheptanoic acid (PFHpA)	1.82		36.3	42.47		ng/L		117	72 - 132
Perfluorooctanoic acid (PFOA)	1.82		36.3	36.23		ng/L		100	70 - 130
Perfluorononanoic acid (PFNA)	1.82		36.3	37.85		ng/L		104	75 - 135
Perfluorodecanoic acid (PFDA)	1.82		36.3	37.81		ng/L		104	76 - 136
Perfluoroundecanoic acid (PFUnA)	1.82		36.3	40.06		ng/L		110	68 - 128
Perfluorododecanoic acid (PFDoA)	1.82		36.3	41.08		ng/L		113	71 - 131
Perfluorotridecanoic acid (PFTriA)	1.82		36.3	41.01		ng/L		113	71 - 131
Perfluorotetradecanoic acid (PFTeA)	1.82		36.3	45.78		ng/L		126	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.43	J	32.1	38.34		ng/L		118	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	1.82		33.0	32.72		ng/L		99	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	1.82		34.5	38.36		ng/L		111	76 - 136
Perfluorooctanesulfonic acid (PFOS)	0.53	J	33.7	38.57		ng/L		113	70 - 130
Perfluorodecanesulfonic acid (PFDS)	1.82		35.0	40.41		ng/L		116	71 - 131
Perfluorooctanesulfonamide (FOSA)	1.82		36.3	42.58		ng/L		117	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.56		36.3	38.68		ng/L		107	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.56		36.3	42.69		ng/L		118	76 - 136
6:2 FTS	4.56		34.4	39.99		ng/L		116	59 - 175
8:2 FTS	1.82		34.8	40.76		ng/L		117	75 - 135

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	*72*		*25 - 150*
13C5 PFPeA	*51*		*25 - 150*
13C2 PFHxA	*98*		*25 - 150*
13C4 PFHpA	*84*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*113*		*25 - 150*
13C2 PFUnA	*108*		*25 - 150*
13C2 PFDoA	*102*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 461095

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 460901

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFTeDA	*100*		*25 - 150*
13C3 PFBS	*69*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*88*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
d3-NMeFOSAA	*86*		*25 - 150*
d5-NEtFOSAA	*77*		*25 - 150*
M2-6:2 FTS	*84*		*25 - 150*
M2-8:2 FTS	*102*		*25 - 150*

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 461095

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 460901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	3.14	J	36.4	34.76		ng/L		87	76 - 136	1	30
Perfluoropentanoic acid (PFPeA)	0.54	J	36.4	39.86		ng/L		108	71 - 131	2	30
Perfluorohexanoic acid (PFHxA)	1.82		36.4	38.43		ng/L		106	73 - 133	2	30
Perfluoroheptanoic acid (PFHpA)	1.82		36.4	39.56		ng/L		109	72 - 132	7	30
Perfluorooctanoic acid (PFOA)	1.82		36.4	33.46		ng/L		92	70 - 130	8	30
Perfluorononanoic acid (PFNA)	1.82		36.4	40.37		ng/L		111	75 - 135	6	30
Perfluorodecanoic acid (PFDA)	1.82		36.4	40.45		ng/L		111	76 - 136	7	30
Perfluoroundecanoic acid (PFUnA)	1.82		36.4	38.03		ng/L		105	68 - 128	5	30
Perfluorododecanoic acid (PFDoA)	1.82		36.4	46.90		ng/L		129	71 - 131	13	30
Perfluorotridecanoic acid (PFTriA)	1.82		36.4	42.40		ng/L		117	71 - 131	3	30
Perfluorotetradecanoic acid (PFTeA)	1.82		36.4	41.93		ng/L		115	70 - 130	9	30
Perfluorobutanesulfonic acid (PFBS)	0.43	J	32.1	37.23		ng/L		114	67 - 127	3	30
Perfluorohexanesulfonic acid (PFHxS)	1.82		33.1	34.47		ng/L		104	59 - 119	5	30
Perfluoroheptanesulfonic Acid (PFHpS)	1.82		34.6	38.17		ng/L		110	76 - 136	0	30
Perfluorooctanesulfonic acid (PFOS)	0.53	J	33.7	38.58		ng/L		113	70 - 130	0	30
Perfluorodecanesulfonic acid (PFDS)	1.82		35.1	32.79		ng/L		94	71 - 131	21	30
Perfluorooctanesulfonamide (FOSA)	1.82		36.4	40.72		ng/L		112	73 - 133	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.56		36.4	38.75		ng/L		107	76 - 136	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.56		36.4	42.68		ng/L		117	76 - 136	0	30
6:2 FTS	4.56		34.5	40.55		ng/L		118	59 - 175	1	30
8:2 FTS	1.82		34.8	40.15		ng/L		115	75 - 135	2	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	*67*		*25 - 150*
13C5 PFPeA	*46*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 461095

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 460901

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFHxA	92		25 - 150
13C4 PFHpA	84		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	84		25 - 150
13C2 PFDA	89		25 - 150
13C2 PFUnA	85		25 - 150
13C2 PFDoA	84		25 - 150
13C2 PFTeDA	84		25 - 150
13C3 PFBS	65		25 - 150
18O2 PFHxS	83		25 - 150
13C4 PFOS	83		25 - 150
13C8 FOSA	82		25 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	61		25 - 150
M2-6:2 FTS	78		25 - 150
M2-8:2 FTS	81		25 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-568624/1-A
Matrix: Water
Analysis Batch: 569288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		02/08/21 10:57	02/11/21 15:47	1
Antimony	ND		0.020		mg/L		02/08/21 10:57	02/11/21 15:47	1
Arsenic	ND		0.015		mg/L		02/08/21 10:57	02/11/21 15:47	1
Barium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 15:47	1
Beryllium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 15:47	1
Cadmium	ND		0.0020		mg/L		02/08/21 10:57	02/11/21 15:47	1
Calcium	ND		0.50		mg/L		02/08/21 10:57	02/11/21 15:47	1
Chromium	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 15:47	1
Cobalt	ND		0.0040		mg/L		02/08/21 10:57	02/11/21 15:47	1
Copper	ND		0.010		mg/L		02/08/21 10:57	02/11/21 15:47	1
Iron	ND		0.050		mg/L		02/08/21 10:57	02/11/21 15:47	1
Lead	ND		0.010		mg/L		02/08/21 10:57	02/11/21 15:47	1
Magnesium	ND		0.20		mg/L		02/08/21 10:57	02/11/21 15:47	1
Manganese	ND		0.0030		mg/L		02/08/21 10:57	02/11/21 15:47	1
Nickel	ND		0.010		mg/L		02/08/21 10:57	02/11/21 15:47	1
Potassium	ND		0.50		mg/L		02/08/21 10:57	02/11/21 15:47	1
Selenium	ND		0.025		mg/L		02/08/21 10:57	02/11/21 15:47	1
Silver	ND		0.0060		mg/L		02/08/21 10:57	02/11/21 15:47	1
Sodium	ND		1.0		mg/L		02/08/21 10:57	02/11/21 15:47	1
Thallium	ND		0.020		mg/L		02/08/21 10:57	02/11/21 15:47	1
Vanadium	ND		0.0050		mg/L		02/08/21 10:57	02/11/21 15:47	1
Zinc	ND		0.010		mg/L		02/08/21 10:57	02/11/21 15:47	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-568624/2-A
Matrix: Water
Analysis Batch: 569288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.07		mg/L		101	80 - 120
Antimony	0.200	0.200		mg/L		100	80 - 120
Arsenic	0.200	0.204		mg/L		102	80 - 120
Barium	0.200	0.216		mg/L		108	80 - 120
Beryllium	0.200	0.209		mg/L		105	80 - 120
Cadmium	0.200	0.200		mg/L		100	80 - 120
Calcium	10.0	10.12		mg/L		101	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.200	0.193		mg/L		96	80 - 120
Copper	0.200	0.204		mg/L		102	80 - 120
Iron	10.0	9.95		mg/L		100	80 - 120
Lead	0.200	0.198		mg/L		99	80 - 120
Magnesium	10.0	9.76		mg/L		98	80 - 120
Manganese	0.200	0.205		mg/L		103	80 - 120
Nickel	0.200	0.193		mg/L		97	80 - 120
Potassium	10.0	9.86		mg/L		99	80 - 120
Selenium	0.200	0.200		mg/L		100	80 - 120
Silver	0.0500	0.0497		mg/L		99	80 - 120
Sodium	10.0	10.02		mg/L		100	80 - 120
Thallium	0.200	0.201		mg/L		100	80 - 120
Vanadium	0.200	0.199		mg/L		99	80 - 120
Zinc	0.200	0.199		mg/L		100	80 - 120

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 569288

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	11.76		mg/L		118	75 - 125
Antimony	ND		0.200	0.212		mg/L		106	75 - 125
Arsenic	ND		0.200	0.217		mg/L		109	75 - 125
Barium	0.030		0.200	0.255		mg/L		112	75 - 125
Beryllium	ND		0.200	0.215		mg/L		108	75 - 125
Cadmium	ND		0.200	0.210		mg/L		105	75 - 125
Calcium	126		10.0	135.3	4	mg/L		89	75 - 125
Chromium	ND		0.200	0.206		mg/L		102	75 - 125
Cobalt	ND		0.200	0.202		mg/L		101	75 - 125
Copper	ND		0.200	0.212		mg/L		106	75 - 125
Iron	ND		10.0	10.77		mg/L		107	75 - 125
Lead	ND		0.200	0.209		mg/L		104	75 - 125
Magnesium	47.8		10.0	57.56	4	mg/L		98	75 - 125
Manganese	0.015	F1	0.200	0.295	F1	mg/L		140	75 - 125
Nickel	ND		0.200	0.211		mg/L		101	75 - 125
Potassium	5.1		10.0	16.10		mg/L		109	75 - 125
Selenium	ND		0.200	0.212		mg/L		106	75 - 125
Silver	ND		0.0500	0.0515		mg/L		103	75 - 125
Sodium	69.7		10.0	76.65	4	mg/L		69	75 - 125
Thallium	ND		0.200	0.206		mg/L		103	75 - 125
Vanadium	ND		0.200	0.210		mg/L		105	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-180934-9 MS
Matrix: Water
Analysis Batch: 569288

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	ND		0.200	0.205		mg/L		101	75 - 125

Lab Sample ID: 480-180934-9 MSD
Matrix: Water
Analysis Batch: 569288

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 568624

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	11.83		mg/L		118	75 - 125	1	20
Antimony	ND		0.200	0.209		mg/L		104	75 - 125	2	20
Arsenic	ND		0.200	0.218		mg/L		109	75 - 125	0	20
Barium	0.030		0.200	0.253		mg/L		111	75 - 125	1	20
Beryllium	ND		0.200	0.215		mg/L		108	75 - 125	0	20
Cadmium	ND		0.200	0.209		mg/L		104	75 - 125	1	20
Calcium	126		10.0	135.9	4	mg/L		96	75 - 125	0	20
Chromium	ND		0.200	0.204		mg/L		102	75 - 125	1	20
Cobalt	ND		0.200	0.201		mg/L		101	75 - 125	0	20
Copper	ND		0.200	0.213		mg/L		106	75 - 125	1	20
Iron	ND		10.0	10.91		mg/L		109	75 - 125	1	20
Lead	ND		0.200	0.208		mg/L		104	75 - 125	0	20
Magnesium	47.8		10.0	57.67	4	mg/L		99	75 - 125	0	20
Manganese	0.015	F1	0.200	0.298	F1	mg/L		142	75 - 125	1	20
Nickel	ND		0.200	0.211		mg/L		101	75 - 125	0	20
Potassium	5.1		10.0	16.14		mg/L		110	75 - 125	0	20
Selenium	ND		0.200	0.216		mg/L		108	75 - 125	2	20
Silver	ND		0.0500	0.0513		mg/L		103	75 - 125	0	20
Sodium	69.7		10.0	77.83	4	mg/L		81	75 - 125	2	20
Thallium	ND		0.200	0.205		mg/L		103	75 - 125	0	20
Vanadium	ND		0.200	0.208		mg/L		104	75 - 125	1	20
Zinc	ND		0.200	0.203		mg/L		100	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-568809/1-A
Matrix: Water
Analysis Batch: 568841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/09/21 13:07	02/09/21 15:54	1

Lab Sample ID: LCS 480-568809/2-A
Matrix: Water
Analysis Batch: 568841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00690		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-180934-9 MS
Client Sample ID: MW-1
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 568841
Prep Batch: 568809

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00655		mg/L		98	80 - 120		

Lab Sample ID: 480-180934-9 MSD
Client Sample ID: MW-1
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 568841
Prep Batch: 568809

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00647		mg/L		97	80 - 120	1	20

GC/MS VOA

Analysis Batch: 568619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	8260C	
480-180934-2	BD	Total/NA	Water	8260C	
480-180934-3	MW-12	Total/NA	Water	8260C	
480-180934-5	MW-8D	Total/NA	Water	8260C	
480-180934-6	MW-1D	Total/NA	Water	8260C	
480-180934-7	MW-9	Total/NA	Water	8260C	
480-180934-8	MW-8	Total/NA	Water	8260C	
480-180934-9	MW-1	Total/NA	Water	8260C	
MB 480-568619/30	Method Blank	Total/NA	Water	8260C	
LCS 480-568619/5	Lab Control Sample	Total/NA	Water	8260C	
480-180934-9 MS	MW-1	Total/NA	Water	8260C	
480-180934-9 MSD	MW-1	Total/NA	Water	8260C	

Analysis Batch: 568777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	8260C	
MB 480-568777/8	Method Blank	Total/NA	Water	8260C	
LCS 480-568777/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 569089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181055-1	MW-4D	Total/NA	Water	8260C	
480-181055-2	MW-2D	Total/NA	Water	8260C	
MB 480-569089/7	Method Blank	Total/NA	Water	8260C	
LCS 480-569089/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 569114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181055-3	PZ-3	Total/NA	Water	8260C	
480-181055-3 - DL	PZ-3	Total/NA	Water	8260C	
480-181055-4	PZ-2	Total/NA	Water	8260C	
480-181055-5	PZ-4	Total/NA	Water	8260C	
480-181055-6	PZ-5	Total/NA	Water	8260C	
MB 480-569114/7	Method Blank	Total/NA	Water	8260C	
LCS 480-569114/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 568692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	3510C	
480-180934-2	BD	Total/NA	Water	3510C	
480-180934-3	MW-12	Total/NA	Water	3510C	
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-180934-5	MW-8D	Total/NA	Water	3510C	
480-180934-6	MW-1D	Total/NA	Water	3510C	
480-180934-7	MW-9	Total/NA	Water	3510C	
480-180934-8	MW-8	Total/NA	Water	3510C	
480-180934-9	MW-1	Total/NA	Water	3510C	
MB 480-568692/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-568692/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 568692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-9 MS	MW-1	Total/NA	Water	3510C	
480-180934-9 MSD	MW-1	Total/NA	Water	3510C	

Prep Batch: 568697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	3510C	
480-180934-2	BD	Total/NA	Water	3510C	
480-180934-3	MW-12	Total/NA	Water	3510C	
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-180934-5	MW-8D	Total/NA	Water	3510C	
480-180934-6	MW-1D	Total/NA	Water	3510C	
480-180934-7	MW-9	Total/NA	Water	3510C	
480-180934-8	MW-8	Total/NA	Water	3510C	
480-180934-9	MW-1	Total/NA	Water	3510C	
MB 480-568697/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-568697/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-180934-9 MS	MW-1	Total/NA	Water	3510C	
480-180934-9 MSD	MW-1	Total/NA	Water	3510C	

Analysis Batch: 568786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	8270D	568692
480-180934-2	BD	Total/NA	Water	8270D	568692
480-180934-3	MW-12	Total/NA	Water	8270D	568692
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	8270D	568692
480-180934-5	MW-8D	Total/NA	Water	8270D	568692
480-180934-6	MW-1D	Total/NA	Water	8270D	568692
480-180934-7	MW-9	Total/NA	Water	8270D	568692
480-180934-8	MW-8	Total/NA	Water	8270D	568692
480-180934-9	MW-1	Total/NA	Water	8270D	568692
MB 480-568692/1-A	Method Blank	Total/NA	Water	8270D	568692
LCS 480-568692/2-A	Lab Control Sample	Total/NA	Water	8270D	568692
480-180934-9 MS	MW-1	Total/NA	Water	8270D	568692
480-180934-9 MSD	MW-1	Total/NA	Water	8270D	568692

Analysis Batch: 568807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	8270D SIM ID	568697
480-180934-2	BD	Total/NA	Water	8270D SIM ID	568697
480-180934-3	MW-12	Total/NA	Water	8270D SIM ID	568697
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	8270D SIM ID	568697
480-180934-5	MW-8D	Total/NA	Water	8270D SIM ID	568697
480-180934-6	MW-1D	Total/NA	Water	8270D SIM ID	568697
480-180934-8	MW-8	Total/NA	Water	8270D SIM ID	568697
480-180934-9	MW-1	Total/NA	Water	8270D SIM ID	568697
MB 480-568697/1-A	Method Blank	Total/NA	Water	8270D SIM ID	568697
LCS 480-568697/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	568697
480-180934-9 MS	MW-1	Total/NA	Water	8270D SIM ID	568697
480-180934-9 MSD	MW-1	Total/NA	Water	8270D SIM ID	568697

GC/MS Semi VOA

Analysis Batch: 568989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-7	MW-9	Total/NA	Water	8270D SIM ID	568697

GC Semi VOA

Prep Batch: 568839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	3510C	
480-180934-2	BD	Total/NA	Water	3510C	
480-180934-3	MW-12	Total/NA	Water	3510C	
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-180934-5	MW-8D	Total/NA	Water	3510C	
480-180934-6	MW-1D	Total/NA	Water	3510C	
480-180934-7	MW-9	Total/NA	Water	3510C	
480-180934-8	MW-8	Total/NA	Water	3510C	
480-180934-9	MW-1	Total/NA	Water	3510C	
MB 480-568839/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-568839/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-180934-9 MS	MW-1	Total/NA	Water	3510C	
480-180934-9 MSD	MW-1	Total/NA	Water	3510C	

Prep Batch: 568874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	3510C	
480-180934-2	BD	Total/NA	Water	3510C	
480-180934-3	MW-12	Total/NA	Water	3510C	
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-180934-5	MW-8D	Total/NA	Water	3510C	
480-180934-6	MW-1D	Total/NA	Water	3510C	
480-180934-7	MW-9	Total/NA	Water	3510C	
480-180934-8	MW-8	Total/NA	Water	3510C	
480-180934-9	MW-1	Total/NA	Water	3510C	
MB 480-568874/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-568874/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-180934-9 MS	MW-1	Total/NA	Water	3510C	
480-180934-9 MSD	MW-1	Total/NA	Water	3510C	

Analysis Batch: 568888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	8081B	568839
480-180934-2	BD	Total/NA	Water	8081B	568839
480-180934-3	MW-12	Total/NA	Water	8081B	568839
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	8081B	568839
480-180934-5	MW-8D	Total/NA	Water	8081B	568839
480-180934-6	MW-1D	Total/NA	Water	8081B	568839
480-180934-7	MW-9	Total/NA	Water	8081B	568839
480-180934-8	MW-8	Total/NA	Water	8081B	568839
480-180934-9	MW-1	Total/NA	Water	8081B	568839
MB 480-568839/1-A	Method Blank	Total/NA	Water	8081B	568839
LCS 480-568839/2-A	Lab Control Sample	Total/NA	Water	8081B	568839
480-180934-9 MS	MW-1	Total/NA	Water	8081B	568839
480-180934-9 MSD	MW-1	Total/NA	Water	8081B	568839

GC Semi VOA

Analysis Batch: 569002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	8082A	568874
480-180934-2	BD	Total/NA	Water	8082A	568874
480-180934-3	MW-12	Total/NA	Water	8082A	568874
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	8082A	568874
480-180934-5	MW-8D	Total/NA	Water	8082A	568874
480-180934-6	MW-1D	Total/NA	Water	8082A	568874
480-180934-7	MW-9	Total/NA	Water	8082A	568874
480-180934-8	MW-8	Total/NA	Water	8082A	568874
480-180934-9	MW-1	Total/NA	Water	8082A	568874
MB 480-568874/1-A	Method Blank	Total/NA	Water	8082A	568874
LCS 480-568874/2-A	Lab Control Sample	Total/NA	Water	8082A	568874
480-180934-9 MS	MW-1	Total/NA	Water	8082A	568874
480-180934-9 MSD	MW-1	Total/NA	Water	8082A	568874

Prep Batch: 569009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	8151A	
480-180934-2	BD	Total/NA	Water	8151A	
480-180934-3	MW-12	Total/NA	Water	8151A	
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	8151A	
480-180934-5	MW-8D	Total/NA	Water	8151A	
480-180934-6	MW-1D	Total/NA	Water	8151A	
480-180934-7	MW-9	Total/NA	Water	8151A	
480-180934-8	MW-8	Total/NA	Water	8151A	
480-180934-9	MW-1	Total/NA	Water	8151A	
MB 480-569009/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-569009/2-A	Lab Control Sample	Total/NA	Water	8151A	
480-180934-9 MS	MW-1	Total/NA	Water	8151A	
480-180934-9 MSD	MW-1	Total/NA	Water	8151A	

Analysis Batch: 569173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	8151A	569009
480-180934-2	BD	Total/NA	Water	8151A	569009
480-180934-3	MW-12	Total/NA	Water	8151A	569009
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	8151A	569009
480-180934-5	MW-8D	Total/NA	Water	8151A	569009
480-180934-6	MW-1D	Total/NA	Water	8151A	569009
480-180934-7	MW-9	Total/NA	Water	8151A	569009
480-180934-8	MW-8	Total/NA	Water	8151A	569009
480-180934-9	MW-1	Total/NA	Water	8151A	569009
MB 480-569009/1-A	Method Blank	Total/NA	Water	8151A	569009
LCS 480-569009/2-A	Lab Control Sample	Total/NA	Water	8151A	569009
480-180934-9 MS	MW-1	Total/NA	Water	8151A	569009
480-180934-9 MSD	MW-1	Total/NA	Water	8151A	569009

Prep Batch: 569472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-2 - RE	BD	Total/NA	Water	8151A	
480-180934-7 - RE	MW-9	Total/NA	Water	8151A	
MB 480-569472/1-A	Method Blank	Total/NA	Water	8151A	

GC Semi VOA (Continued)

Prep Batch: 569472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-569472/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 480-569472/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 569890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-2 - RE	BD	Total/NA	Water	8151A	569472
480-180934-7 - RE	MW-9	Total/NA	Water	8151A	569472
MB 480-569472/1-A	Method Blank	Total/NA	Water	8151A	569472
LCS 480-569472/2-A	Lab Control Sample	Total/NA	Water	8151A	569472
LCSD 480-569472/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	569472

LCMS

Prep Batch: 460901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	3535	
480-180934-2	BD	Total/NA	Water	3535	
480-180934-3	MW-12	Total/NA	Water	3535	
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	3535	
480-180934-5	MW-8D	Total/NA	Water	3535	
480-180934-6	MW-1D	Total/NA	Water	3535	
480-180934-7	MW-9	Total/NA	Water	3535	
480-180934-8	MW-8	Total/NA	Water	3535	
480-180934-9	MW-1	Total/NA	Water	3535	
MB 320-460901/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-460901/2-A	Lab Control Sample	Total/NA	Water	3535	
480-180934-9 MS	MW-1	Total/NA	Water	3535	
480-180934-9 MSD	MW-1	Total/NA	Water	3535	

Analysis Batch: 461095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	537 (modified)	460901
480-180934-2	BD	Total/NA	Water	537 (modified)	460901
480-180934-3	MW-12	Total/NA	Water	537 (modified)	460901
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	537 (modified)	460901
480-180934-5	MW-8D	Total/NA	Water	537 (modified)	460901
480-180934-6	MW-1D	Total/NA	Water	537 (modified)	460901
480-180934-7	MW-9	Total/NA	Water	537 (modified)	460901
480-180934-8	MW-8	Total/NA	Water	537 (modified)	460901
480-180934-9	MW-1	Total/NA	Water	537 (modified)	460901
MB 320-460901/1-A	Method Blank	Total/NA	Water	537 (modified)	460901
LCS 320-460901/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	460901
480-180934-9 MS	MW-1	Total/NA	Water	537 (modified)	460901
480-180934-9 MSD	MW-1	Total/NA	Water	537 (modified)	460901

Metals

Prep Batch: 568624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	3005A	
480-180934-2	BD	Total/NA	Water	3005A	
480-180934-3	MW-12	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 568624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	3005A	
480-180934-5	MW-8D	Total/NA	Water	3005A	
480-180934-6	MW-1D	Total/NA	Water	3005A	
480-180934-7	MW-9	Total/NA	Water	3005A	
480-180934-8	MW-8	Total/NA	Water	3005A	
480-180934-9	MW-1	Total/NA	Water	3005A	
MB 480-568624/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-568624/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-180934-9 MS	MW-1	Total/NA	Water	3005A	
480-180934-9 MSD	MW-1	Total/NA	Water	3005A	

Prep Batch: 568809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	7470A	
480-180934-2	BD	Total/NA	Water	7470A	
480-180934-3	MW-12	Total/NA	Water	7470A	
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	7470A	
480-180934-5	MW-8D	Total/NA	Water	7470A	
480-180934-6	MW-1D	Total/NA	Water	7470A	
480-180934-7	MW-9	Total/NA	Water	7470A	
480-180934-8	MW-8	Total/NA	Water	7470A	
480-180934-9	MW-1	Total/NA	Water	7470A	
MB 480-568809/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-568809/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-180934-9 MS	MW-1	Total/NA	Water	7470A	
480-180934-9 MSD	MW-1	Total/NA	Water	7470A	

Analysis Batch: 568841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	7470A	568809
480-180934-2	BD	Total/NA	Water	7470A	568809
480-180934-3	MW-12	Total/NA	Water	7470A	568809
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	7470A	568809
480-180934-5	MW-8D	Total/NA	Water	7470A	568809
480-180934-6	MW-1D	Total/NA	Water	7470A	568809
480-180934-7	MW-9	Total/NA	Water	7470A	568809
480-180934-8	MW-8	Total/NA	Water	7470A	568809
480-180934-9	MW-1	Total/NA	Water	7470A	568809
MB 480-568809/1-A	Method Blank	Total/NA	Water	7470A	568809
LCS 480-568809/2-A	Lab Control Sample	Total/NA	Water	7470A	568809
480-180934-9 MS	MW-1	Total/NA	Water	7470A	568809
480-180934-9 MSD	MW-1	Total/NA	Water	7470A	568809

Analysis Batch: 569288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-1	MW-13	Total/NA	Water	6010C	568624
480-180934-2	BD	Total/NA	Water	6010C	568624
480-180934-3	MW-12	Total/NA	Water	6010C	568624
480-180934-4	EQUIPMENT BLANK	Total/NA	Water	6010C	568624
480-180934-5	MW-8D	Total/NA	Water	6010C	568624
480-180934-6	MW-1D	Total/NA	Water	6010C	568624

Metals (Continued)

Analysis Batch: 569288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180934-7	MW-9	Total/NA	Water	6010C	568624
480-180934-8	MW-8	Total/NA	Water	6010C	568624
480-180934-9	MW-1	Total/NA	Water	6010C	568624
MB 480-568624/1-A	Method Blank	Total/NA	Water	6010C	568624
LCS 480-568624/2-A	Lab Control Sample	Total/NA	Water	6010C	568624
480-180934-9 MS	MW-1	Total/NA	Water	6010C	568624
480-180934-9 MSD	MW-1	Total/NA	Water	6010C	568624

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-13

Date Collected: 02/04/21 15:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 12:53	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 17:00	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568807	02/09/21 17:49	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 13:40	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 22:09	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/11/21 21:07	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 09:12	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:06	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:11	BMB	TAL BUF

Client Sample ID: BD

Date Collected: 02/04/21 09:45
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 13:17	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 17:30	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568807	02/09/21 18:13	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 13:59	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 22:21	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/11/21 21:37	MAN	TAL BUF
Total/NA	Prep	8151A	RE		569472	02/15/21 09:22	JMP	TAL BUF
Total/NA	Analysis	8151A	RE	1	569890	02/18/21 10:04	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 09:22	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:10	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:12	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-12

Lab Sample ID: 480-180934-3

Date Collected: 02/04/21 13:00
Matrix: Water
Date Received: 02/05/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 13:41	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 18:00	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568807	02/09/21 18:36	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 14:19	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 22:34	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/11/21 22:07	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 09:31	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:14	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:14	BMB	TAL BUF

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-180934-4

Date Collected: 02/04/21 15:45
Matrix: Water
Date Received: 02/05/21 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568777	02/09/21 17:50	LCH	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 18:30	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568807	02/09/21 18:59	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 14:38	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 22:47	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/11/21 22:36	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 09:40	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:18	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:15	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-8D

Date Collected: 02/04/21 09:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 14:06	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 18:59	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568807	02/09/21 19:23	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 14:57	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 22:59	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/11/21 23:06	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 09:50	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:22	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:16	BMB	TAL BUF

Client Sample ID: MW-1D

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 14:30	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 19:29	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568807	02/09/21 19:46	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 15:17	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 23:11	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/12/21 00:05	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 09:59	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:25	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:17	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-9

Lab Sample ID: 480-180934-7

Date Collected: 02/04/21 14:00
Date Received: 02/05/21 15:35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 14:54	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 19:59	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568989	02/10/21 15:13	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 15:36	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 23:24	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/12/21 00:35	MAN	TAL BUF
Total/NA	Prep	8151A	RE		569472	02/15/21 09:22	JMP	TAL BUF
Total/NA	Analysis	8151A	RE	1	569890	02/18/21 10:33	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 10:09	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:29	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:19	BMB	TAL BUF

Client Sample ID: MW-8

Lab Sample ID: 480-180934-8

Date Collected: 02/04/21 10:30
Date Received: 02/05/21 15:35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 15:18	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 20:28	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	568807	02/09/21 20:33	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 15:56	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 23:36	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/12/21 01:04	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 10:18	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:33	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:20	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: MW-1
Date Collected: 02/04/21 14:30
Date Received: 02/05/21 15:35

Lab Sample ID: 480-180934-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	568619	02/08/21 15:42	RJF	TAL BUF
Total/NA	Prep	3510C			568692	02/08/21 14:57	ATG	TAL BUF
Total/NA	Analysis	8270D		1	568786	02/09/21 15:31	JMM	TAL BUF
Total/NA	Prep	3510C			568697	02/08/21 15:07	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	568807	02/09/21 16:14	PJQ	TAL BUF
Total/NA	Prep	3510C			568839	02/09/21 15:24	ATG	TAL BUF
Total/NA	Analysis	8081B		1	568888	02/10/21 12:41	JLS	TAL BUF
Total/NA	Prep	3510C			568874	02/10/21 07:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	569002	02/10/21 21:07	W1T	TAL BUF
Total/NA	Prep	8151A			569009	02/10/21 15:10	ATG	TAL BUF
Total/NA	Analysis	8151A		1	569173	02/11/21 20:38	MAN	TAL BUF
Total/NA	Prep	3535			460901	02/10/21 18:51	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	461095	02/11/21 10:46	MNV	TAL SAC
Total/NA	Prep	3005A			568624	02/08/21 10:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	569288	02/11/21 16:37	AMH	TAL BUF
Total/NA	Prep	7470A			568809	02/09/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	568841	02/09/21 16:21	BMB	TAL BUF

Client Sample ID: MW-4D
Date Collected: 02/04/21 12:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	569089	02/11/21 12:23	CRL	TAL BUF

Client Sample ID: MW-2D
Date Collected: 02/04/21 11:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	569089	02/11/21 12:48	CRL	TAL BUF

Client Sample ID: PZ-3
Date Collected: 02/04/21 12:10
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		250	569114	02/11/21 12:31	RJF	TAL BUF
Total/NA	Analysis	8260C	DL	400	569114	02/11/21 14:07	RJF	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Client Sample ID: PZ-2
Date Collected: 02/04/21 10:30
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	569114	02/11/21 12:55	RJF	TAL BUF

Client Sample ID: PZ-4
Date Collected: 02/04/21 12:30
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	569114	02/11/21 13:19	RJF	TAL BUF

Client Sample ID: PZ-5
Date Collected: 02/04/21 16:00
Date Received: 02/05/21 17:33

Lab Sample ID: 480-181055-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	569114	02/11/21 13:43	RJF	TAL BUF

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180934-1
Project/Site: Benchmark - 3077 Union Rd

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-21 *
ANAB	ISO/IEC 17025	L2468	01-20-21 *
Arizona	State	AZ0708	02-16-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	02-21-21
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	02-01-21 *
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-21 *
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-22
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180934-1
Project/Site: Benchmark - 3077 Union Rd

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-180934-1
Project/Site: Benchmark - 3077 Union Rd

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180934-1	MW-13	Water	02/04/21 15:00	02/05/21 15:35	
480-180934-2	BD	Water	02/04/21 09:45	02/05/21 15:35	
480-180934-3	MW-12	Water	02/04/21 13:00	02/05/21 15:35	
480-180934-4	EQUIPMENT BLANK	Water	02/04/21 15:45	02/05/21 15:35	
480-180934-5	MW-8D	Water	02/04/21 09:30	02/05/21 15:35	
480-180934-6	MW-1D	Water	02/04/21 14:00	02/05/21 15:35	
480-180934-7	MW-9	Water	02/04/21 14:00	02/05/21 15:35	
480-180934-8	MW-8	Water	02/04/21 10:30	02/05/21 15:35	
480-180934-9	MW-1	Water	02/04/21 14:30	02/05/21 15:35	
480-181055-1	MW-4D	Water	02/04/21 12:00	02/05/21 17:33	
480-181055-2	MW-2D	Water	02/04/21 11:00	02/05/21 17:33	
480-181055-3	PZ-3	Water	02/04/21 12:10	02/05/21 17:33	
480-181055-4	PZ-2	Water	02/04/21 10:30	02/05/21 17:33	
480-181055-5	PZ-4	Water	02/04/21 12:30	02/05/21 17:33	
480-181055-6	PZ-5	Water	02/04/21 16:00	02/05/21 17:33	

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Mike Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-155500-34449.1
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 1 of 5
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-713-3937	PO #: T0105-017-010			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site: 3077 Union Rd	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	PFC_IDA - PFAS, Standard List (21 Analytes)	8082A - TCL PCBs - OLM04.2	8081B - TCL Pesticides - OLM04.2	8270D - TCL SVOA - OLM04.2	6010C, 7470A	8151A - Appendix II Herbicides	8270D_SIM_MS_ID - SIM List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	D	N	N		
MW-1	2/4/21	1430	G	Water	N	Y	X	X	X	X	X	X	X	X		MS/MSD
MW-10		14:00		Water			X	X	X	X	X	X	X	X		
MW-2D		11:05		Water			X									
PZ-2		10:30		Water			X									
MW-4D		12:00		Water			X									
PZ-3		12:10		Water			X									
PZ-4		12:30		Water			X									
PZ-5		1600		Water			X									
MW-9D		9:30		Water			X	X	X	X	X	X	X			
MW-8		10:30		Water			X	X	X	X	X	X	X			
MW-9		14:00		Water			X	X	X	X	X	X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYSDEC EQ-ULS

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: 2-5-21 Time: 3:00 PM Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Mike Suraci	2-4-21 1700	BMTK			
Relinquished by:	Date/Time: 2-5-21 1550	Company FOXY	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-155500-34449.2
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 2 of 5
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard	Analysis Requested		Preservation Codes:
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-713-3937	PO #: T0105-017-010			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site: 3077 Union	SSOW#:			

480-180934 Chain of Custody

ydrate

K - EDTA W - pH 4-5
L - EDA Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	PFC_IDA - PFAS, Standard List (21 Analytes)	8082A - TCL PCBs - OLM04.2	8081B - TCL Pesticides - OLM04.2	8270D - TCL SVOA - OLM04.2	6010C, 7470A	8151A - Appendix II Herbicides	8270D_SIM_MS_ID - SIM List	Total Number of containe	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	D	N	N		
MW-13	2/4/21	15:00	G	Water	N		X	X	X	X	X	X	X	X		
BD	2/4/21	9:45	G	Water	N		X	X	X	X	X	X	X	X		
MW-12	2/4/21	13:00	G	Water			X	X	X	X	X	X	X	X		
Equipment blank	2/4/21	1545	G	Water			X	X	X	X	X	X	X	X		
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B. NYSDEC Class S

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/4/21 1700	Company BMTK	Received by: FOXY 1500
Relinquished by:	Date/Time: 2-5-21 1535	Company FOXY	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time: 2-5-21 1500	Company FOXY
Date/Time: 2/5/21 15:35	Company BTA
Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.0, 3.4, 3.1, 3.6, 3.8, 3.1, 3.3, 0.1, 3.5, 3.7, 4.2

Ver: 11/01/2020

SAMPLE LOGIN

Project 480-17437 **Event** Benchmark 3077 Union Rd

Analysis Groups 8260C TCL List

TAT ____ **# SAMPLES:** 6 **TRIP BLANK? Y/N** X **#/date** CW 2/11/20

Custody Seal Intact Y/N NONE **Rad Check <0.02 mR/hr Y/N**

Residual Chlorine Check Y/N/ NA **Pres Checked Y/N/NA**

480-181055 Chain of Custody

Workshare/Subcontract Y/N **Lab**_____ _____ **SO/ICOC #**_____

Received out of hold: Samples _____ **Analysis**_____

Checklist/NCM's No COC received

Received via private courier 2/5 @ 1533

Temperature(s) **#of coolers** 1 **IR Gun** (1) 2 3

2.8 #1 ICE

MW-4D 2/4 @ 1200	PZ-2 2/4 @ 1030
MW-2D 2/4 @ 1160	PZ-4 2/4 @ 1230
PZ-3 2/4 @ 1210	PZ-5 2/4 @ 1600

Method- 8260C

480-180934

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

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-61689.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-180934-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 2/11/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email:	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-13 (480-180934-1)	2/4/21	15:00 Eastern		Water			X	2	
BD (480-180934-2)	2/4/21	09:45 Eastern		Water			X	2	
MW-12 (480-180934-3)	2/4/21	13:00 Eastern		Water			X	2	
EQUIPMENT BLANK (480-180934-4)	2/4/21	15:45 Eastern		Water			X	2	
MW-8D (480-180934-5)	2/4/21	09:30 Eastern		Water			X	2	
MW-1D (480-180934-6)	2/4/21	14:00 Eastern		Water			X	2	
MW-9 (480-180934-7)	2/4/21	14:00 Eastern		Water			X	2	
MW-8 (480-180934-8)	2/4/21	10:30 Eastern		Water			X	2	
MW-1 (480-180934-9)	2/4/21	14:30 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
1	[signature]	2/9/21 1700	TA	[signature]	02/10/21 940	eta Sac
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Seal	Cooler Temperature(s) °C and Other Remarks: 2.4

2/19/2021

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

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-61689.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-180934-1
Address: 880 Riverside Parkway,	Due Date Requested: 2/11/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1 (480-180934-9MS)	2/4/21	14:30 Eastern	MS	Water			X	2	
MW-1 (480-180934-9MSD)	2/4/21	14:30 Eastern	MSD	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by: PSL	Date/Time:	Company	Received by:	Date/Time: 02/10/21 940	Company: eta SAC
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: (Δ) Yes Δ No	Custody Seal No.: Seal	Cooler Temperature(s) °C and Other Remarks: 2.4

eurofins | Environment Testing TestAmerica

Sacramento Sample Receiving Notes

480-180934 Field Sheet

Job: _____

Tracking # : 1888 3863 0069

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: C-01 Corr. Factor: (+ / -) 0 °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: seal

Cooler ID: –

Temp Observed: 2.4 °C Corrected: 2.4 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials: MAM Date: 02/10/21

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: SO Date: 2/10/21

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: SO Date: 2/10/21

WR3 E9B

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-180934-1

Login Number: 180934
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

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

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-180934-1

Login Number: 180934
List Number: 2
Creator: Oropeza, Salvador

List Source: Eurofins TestAmerica, Sacramento
List Creation: 02/10/21 05:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-180934-1

Login Number: 181055
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 480-182896-1
Client Project/Site: Benchmark - 3077 Union Rd

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

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

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

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182896-1
Project/Site: Benchmark - 3077 Union Rd

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Benchmark Env. Eng. & Science, PLLC
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Job ID: 480-182896-1

Job ID: 480-182896-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-182896-1

Comments
No additional comments.

Receipt
The samples were received on 4/6/2021 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8º C.

GC/MS VOA
Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: PZ-7 (480-182896-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-575496 recovered outside control limits for the following analytes: 2-Hexanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-575622 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182896-1
Project/Site: Benchmark - 3077 Union Rd

Client Sample ID: PZ-6 — Lab Sample ID: 480-182896-1

No Detections.

Client Sample ID: PZ-7 — Lab Sample ID: 480-182896-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	20	6.0	ug/L	2		8260C	Total/NA

Client Sample ID: PZ-8 — Lab Sample ID: 480-182896-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	0.39	J	5.0	0.39	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Client Sample ID: PZ-6
Date Collected: 04/06/21 13:00
Date Received: 04/06/21 14:00

Lab Sample ID: 480-182896-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/21 14:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/08/21 14:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/08/21 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/08/21 14:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/21 14:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/21 14:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/08/21 14:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/08/21 14:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/08/21 14:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/08/21 14:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/08/21 14:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/08/21 14:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/08/21 14:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/08/21 14:06	1
2-Hexanone	ND	*+	5.0	1.2	ug/L			04/08/21 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/08/21 14:06	1
Acetone	ND		10	3.0	ug/L			04/08/21 14:06	1
Benzene	ND		1.0	0.41	ug/L			04/08/21 14:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/08/21 14:06	1
Bromoform	ND		1.0	0.26	ug/L			04/08/21 14:06	1
Bromomethane	ND		1.0	0.69	ug/L			04/08/21 14:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/08/21 14:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/08/21 14:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/08/21 14:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/08/21 14:06	1
Chloroethane	ND		1.0	0.32	ug/L			04/08/21 14:06	1
Chloroform	ND		1.0	0.34	ug/L			04/08/21 14:06	1
Chloromethane	ND		1.0	0.35	ug/L			04/08/21 14:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/08/21 14:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/08/21 14:06	1
Cyclohexane	ND		1.0	0.18	ug/L			04/08/21 14:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/08/21 14:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/08/21 14:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/08/21 14:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/08/21 14:06	1
Methyl acetate	ND		2.5	1.3	ug/L			04/08/21 14:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/08/21 14:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/08/21 14:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/08/21 14:06	1
Styrene	ND		1.0	0.73	ug/L			04/08/21 14:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/21 14:06	1
Toluene	ND		1.0	0.51	ug/L			04/08/21 14:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/21 14:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/08/21 14:06	1
Trichloroethene	ND		1.0	0.46	ug/L			04/08/21 14:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/08/21 14:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/21 14:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/08/21 14:06	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Client Sample ID: PZ-6
Date Collected: 04/06/21 13:00
Date Received: 04/06/21 14:00

Lab Sample ID: 480-182896-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		04/08/21 14:06	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		04/08/21 14:06	1
4-Bromofluorobenzene (Surr)	105		73 - 120		04/08/21 14:06	1
Dibromofluoromethane (Surr)	97		75 - 123		04/08/21 14:06	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Client Sample ID: PZ-7
Date Collected: 04/06/21 13:15
Date Received: 04/06/21 14:00

Lab Sample ID: 480-182896-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/08/21 14:30	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			04/08/21 14:30	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			04/08/21 14:30	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			04/08/21 14:30	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			04/08/21 14:30	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			04/08/21 14:30	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			04/08/21 14:30	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			04/08/21 14:30	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			04/08/21 14:30	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			04/08/21 14:30	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			04/08/21 14:30	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			04/08/21 14:30	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			04/08/21 14:30	2
2-Butanone (MEK)	ND		20	2.6	ug/L			04/08/21 14:30	2
2-Hexanone	ND	*+	10	2.5	ug/L			04/08/21 14:30	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			04/08/21 14:30	2
Acetone	**11**	**J**	20	6.0	ug/L			04/08/21 14:30	2
Benzene	ND		2.0	0.82	ug/L			04/08/21 14:30	2
Bromodichloromethane	ND		2.0	0.78	ug/L			04/08/21 14:30	2
Bromoform	ND		2.0	0.52	ug/L			04/08/21 14:30	2
Bromomethane	ND		2.0	1.4	ug/L			04/08/21 14:30	2
Carbon disulfide	ND		2.0	0.38	ug/L			04/08/21 14:30	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			04/08/21 14:30	2
Chlorobenzene	ND		2.0	1.5	ug/L			04/08/21 14:30	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/08/21 14:30	2
Chloroethane	ND		2.0	0.64	ug/L			04/08/21 14:30	2
Chloroform	ND		2.0	0.68	ug/L			04/08/21 14:30	2
Chloromethane	ND		2.0	0.70	ug/L			04/08/21 14:30	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			04/08/21 14:30	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			04/08/21 14:30	2
Cyclohexane	ND		2.0	0.36	ug/L			04/08/21 14:30	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			04/08/21 14:30	2
Ethylbenzene	ND		2.0	1.5	ug/L			04/08/21 14:30	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			04/08/21 14:30	2
Isopropylbenzene	ND		2.0	1.6	ug/L			04/08/21 14:30	2
Methyl acetate	ND		5.0	2.6	ug/L			04/08/21 14:30	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			04/08/21 14:30	2
Methylcyclohexane	ND		2.0	0.32	ug/L			04/08/21 14:30	2
Methylene Chloride	ND		2.0	0.88	ug/L			04/08/21 14:30	2
Styrene	ND		2.0	1.5	ug/L			04/08/21 14:30	2
Tetrachloroethene	ND		2.0	0.72	ug/L			04/08/21 14:30	2
Toluene	ND		2.0	1.0	ug/L			04/08/21 14:30	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			04/08/21 14:30	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			04/08/21 14:30	2
Trichloroethene	ND		2.0	0.92	ug/L			04/08/21 14:30	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			04/08/21 14:30	2
Vinyl chloride	ND		2.0	1.8	ug/L			04/08/21 14:30	2
Xylenes, Total	ND		4.0	1.3	ug/L			04/08/21 14:30	2

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Client Sample ID: PZ-7
Date Collected: 04/06/21 13:15
Date Received: 04/06/21 14:00

Lab Sample ID: 480-182896-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		04/08/21 14:30	2
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		04/08/21 14:30	2
4-Bromofluorobenzene (Surr)	110		73 - 120		04/08/21 14:30	2
Dibromofluoromethane (Surr)	103		75 - 123		04/08/21 14:30	2

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Client Sample ID: PZ-8
Date Collected: 04/06/21 13:30
Date Received: 04/06/21 14:00

Lab Sample ID: 480-182896-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/21 14:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/08/21 14:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/08/21 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/08/21 14:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/21 14:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/21 14:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/08/21 14:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/08/21 14:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/08/21 14:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/08/21 14:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/08/21 14:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/08/21 14:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/08/21 14:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/08/21 14:55	1
2-Hexanone	ND	*+	5.0	1.2	ug/L			04/08/21 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/08/21 14:55	1
Acetone	ND		10	3.0	ug/L			04/08/21 14:55	1
Benzene	ND		1.0	0.41	ug/L			04/08/21 14:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/08/21 14:55	1
Bromoform	ND		1.0	0.26	ug/L			04/08/21 14:55	1
Bromomethane	ND		1.0	0.69	ug/L			04/08/21 14:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/08/21 14:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/08/21 14:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/08/21 14:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/08/21 14:55	1
Chloroethane	ND		1.0	0.32	ug/L			04/08/21 14:55	1
Chloroform	ND		1.0	0.34	ug/L			04/08/21 14:55	1
Chloromethane	ND		1.0	0.35	ug/L			04/08/21 14:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/08/21 14:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/08/21 14:55	1
Cyclohexane	ND		1.0	0.18	ug/L			04/08/21 14:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/08/21 14:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/08/21 14:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/08/21 14:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/08/21 14:55	1
Methyl acetate	ND		2.5	1.3	ug/L			04/08/21 14:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/08/21 14:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/08/21 14:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/08/21 14:55	1
Styrene	ND		1.0	0.73	ug/L			04/08/21 14:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/21 14:55	1
Toluene	ND		1.0	0.51	ug/L			04/08/21 14:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/21 14:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/08/21 14:55	1
Trichloroethene	ND		1.0	0.46	ug/L			04/08/21 14:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/08/21 14:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/21 14:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/08/21 14:55	1

Client Sample ID: PZ-8
Lab Sample ID: 480-182896-3
Date Collected: 04/06/21 13:30
Matrix: Water
Date Received: 04/06/21 14:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/08/21 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*04/08/21 14:55*	*1*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*04/08/21 14:55*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*04/08/21 14:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		04/07/21 14:52	04/09/21 08:30	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		04/07/21 14:52	04/09/21 08:30	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		04/07/21 14:52	04/09/21 08:30	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		04/07/21 14:52	04/09/21 08:30	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		04/07/21 14:52	04/09/21 08:30	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		04/07/21 14:52	04/09/21 08:30	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		04/07/21 14:52	04/09/21 08:30	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		04/07/21 14:52	04/09/21 08:30	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		04/07/21 14:52	04/09/21 08:30	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		04/07/21 14:52	04/09/21 08:30	1
2-Chlorophenol	ND		5.0	0.53	ug/L		04/07/21 14:52	04/09/21 08:30	1
2-Methylphenol	ND		5.0	0.40	ug/L		04/07/21 14:52	04/09/21 08:30	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		04/07/21 14:52	04/09/21 08:30	1
2-Nitroaniline	ND		10	0.42	ug/L		04/07/21 14:52	04/09/21 08:30	1
2-Nitrophenol	ND		5.0	0.48	ug/L		04/07/21 14:52	04/09/21 08:30	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/07/21 14:52	04/09/21 08:30	1
3-Nitroaniline	ND		10	0.48	ug/L		04/07/21 14:52	04/09/21 08:30	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		04/07/21 14:52	04/09/21 08:30	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		04/07/21 14:52	04/09/21 08:30	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		04/07/21 14:52	04/09/21 08:30	1
4-Chloroaniline	ND		5.0	0.59	ug/L		04/07/21 14:52	04/09/21 08:30	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		04/07/21 14:52	04/09/21 08:30	1
4-Methylphenol	ND		10	0.36	ug/L		04/07/21 14:52	04/09/21 08:30	1
4-Nitroaniline	ND		10	0.25	ug/L		04/07/21 14:52	04/09/21 08:30	1
4-Nitrophenol	ND		10	1.5	ug/L		04/07/21 14:52	04/09/21 08:30	1
Acenaphthene	ND		5.0	0.41	ug/L		04/07/21 14:52	04/09/21 08:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/07/21 14:52	04/09/21 08:30	1
Acetophenone	ND		5.0	0.54	ug/L		04/07/21 14:52	04/09/21 08:30	1
Anthracene	ND		5.0	0.28	ug/L		04/07/21 14:52	04/09/21 08:30	1
Atrazine	ND		5.0	0.46	ug/L		04/07/21 14:52	04/09/21 08:30	1
Benzaldehyde	ND		5.0	0.27	ug/L		04/07/21 14:52	04/09/21 08:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/07/21 14:52	04/09/21 08:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		04/07/21 14:52	04/09/21 08:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/07/21 14:52	04/09/21 08:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/07/21 14:52	04/09/21 08:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/07/21 14:52	04/09/21 08:30	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		04/07/21 14:52	04/09/21 08:30	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		04/07/21 14:52	04/09/21 08:30	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		04/07/21 14:52	04/09/21 08:30	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		04/07/21 14:52	04/09/21 08:30	1
Caprolactam	ND		5.0	2.2	ug/L		04/07/21 14:52	04/09/21 08:30	1
Carbazole	ND		5.0	0.30	ug/L		04/07/21 14:52	04/09/21 08:30	1
Chrysene	ND		5.0	0.33	ug/L		04/07/21 14:52	04/09/21 08:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Client Sample ID: PZ-8
Date Collected: 04/06/21 13:30
Date Received: 04/06/21 14:00

Lab Sample ID: 480-182896-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/07/21 14:52	04/09/21 08:30	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		04/07/21 14:52	04/09/21 08:30	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		04/07/21 14:52	04/09/21 08:30	1
Dibenzofuran	ND		10	0.51	ug/L		04/07/21 14:52	04/09/21 08:30	1
Diethyl phthalate	ND		5.0	0.22	ug/L		04/07/21 14:52	04/09/21 08:30	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		04/07/21 14:52	04/09/21 08:30	1
Fluoranthene	ND		5.0	0.40	ug/L		04/07/21 14:52	04/09/21 08:30	1
Fluorene	ND		5.0	0.36	ug/L		04/07/21 14:52	04/09/21 08:30	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		04/07/21 14:52	04/09/21 08:30	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		04/07/21 14:52	04/09/21 08:30	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		04/07/21 14:52	04/09/21 08:30	1
Hexachloroethane	ND		5.0	0.59	ug/L		04/07/21 14:52	04/09/21 08:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/07/21 14:52	04/09/21 08:30	1
Isophorone	ND		5.0	0.43	ug/L		04/07/21 14:52	04/09/21 08:30	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		04/07/21 14:52	04/09/21 08:30	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		04/07/21 14:52	04/09/21 08:30	1
Naphthalene	ND		5.0	0.76	ug/L		04/07/21 14:52	04/09/21 08:30	1
Nitrobenzene	ND		5.0	0.29	ug/L		04/07/21 14:52	04/09/21 08:30	1
Pentachlorophenol	ND		10	2.2	ug/L		04/07/21 14:52	04/09/21 08:30	1
Phenanthrene	ND		5.0	0.44	ug/L		04/07/21 14:52	04/09/21 08:30	1
Phenol	**0.39**	**J**	5.0	0.39	ug/L		04/07/21 14:52	04/09/21 08:30	1
Pyrene	ND		5.0	0.34	ug/L		04/07/21 14:52	04/09/21 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*96*		*46 - 120*	*04/07/21 14:52*	*04/09/21 08:30*	*1*
Phenol-d5 (Surr)	*55*		*22 - 120*	*04/07/21 14:52*	*04/09/21 08:30*	*1*
p-Terphenyl-d14 (Surr)	*72*		*60 - 148*	*04/07/21 14:52*	*04/09/21 08:30*	*1*
2,4,6-Tribromophenol (Surr)	*103*		*41 - 120*	*04/07/21 14:52*	*04/09/21 08:30*	*1*
2-Fluorobiphenyl	*102*		*48 - 120*	*04/07/21 14:52*	*04/09/21 08:30*	*1*
2-Fluorophenol (Surr)	*74*		*35 - 120*	*04/07/21 14:52*	*04/09/21 08:30*	*1*

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-182896-1	PZ-6	105	100	105	97
480-182896-2	PZ-7	105	105	110	103
480-182896-3	PZ-8	104	104	111	107
LCS 480-575496/5	Lab Control Sample	108	101	112	101
MB 480-575496/7	Method Blank	103	100	103	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(46-120)	(22-120)	(60-148)	(41-120)	(48-120)	(35-120)
480-182896-3	PZ-8	96	55	72	103	102	74
LCS 480-575435/2-A	Lab Control Sample	88	54	95	95	90	68
MB 480-575435/1-A	Method Blank	84	49	96	76	89	64

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

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

Lab Sample ID: MB 480-575496/7
Matrix: Water
Analysis Batch: 575496

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/21 10:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/08/21 10:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/08/21 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/08/21 10:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/21 10:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/21 10:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/08/21 10:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/08/21 10:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/08/21 10:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/08/21 10:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/08/21 10:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/08/21 10:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/08/21 10:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/08/21 10:58	1
2-Hexanone	ND		5.0	1.2	ug/L			04/08/21 10:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/08/21 10:58	1
Acetone	ND		10	3.0	ug/L			04/08/21 10:58	1
Benzene	ND		1.0	0.41	ug/L			04/08/21 10:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/08/21 10:58	1
Bromoform	ND		1.0	0.26	ug/L			04/08/21 10:58	1
Bromomethane	ND		1.0	0.69	ug/L			04/08/21 10:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/08/21 10:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/08/21 10:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/08/21 10:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/08/21 10:58	1
Chloroethane	ND		1.0	0.32	ug/L			04/08/21 10:58	1
Chloroform	ND		1.0	0.34	ug/L			04/08/21 10:58	1
Chloromethane	ND		1.0	0.35	ug/L			04/08/21 10:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/08/21 10:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/08/21 10:58	1
Cyclohexane	ND		1.0	0.18	ug/L			04/08/21 10:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/08/21 10:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/08/21 10:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/08/21 10:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/08/21 10:58	1
Methyl acetate	ND		2.5	1.3	ug/L			04/08/21 10:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/08/21 10:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/08/21 10:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/08/21 10:58	1
Styrene	ND		1.0	0.73	ug/L			04/08/21 10:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/21 10:58	1
Toluene	ND		1.0	0.51	ug/L			04/08/21 10:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/21 10:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/08/21 10:58	1
Trichloroethene	ND		1.0	0.46	ug/L			04/08/21 10:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/08/21 10:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/21 10:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/08/21 10:58	1

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

Lab Sample ID: MB 480-575496/7
Matrix: Water
Analysis Batch: 575496

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/08/21 10:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*04/08/21 10:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/08/21 10:58*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*04/08/21 10:58*	*1*

Lab Sample ID: LCS 480-575496/5
Matrix: Water
Analysis Batch: 575496

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.6		ug/L		98	73 - 126
1,1,2,2-Tetrachloroethane	25.0	28.9		ug/L		116	76 - 120
1,1,2-Trichloroethane	25.0	28.3		ug/L		113	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.8		ug/L		95	61 - 148
1,1-Dichloroethane	25.0	24.8		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	23.5		ug/L		94	66 - 127
1,2,4-Trichlorobenzene	25.0	29.2		ug/L		117	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	56 - 134
1,2-Dichlorobenzene	25.0	29.4		ug/L		118	80 - 124
1,2-Dichloroethane	25.0	25.6		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	26.2		ug/L		105	76 - 120
1,3-Dichlorobenzene	25.0	29.6		ug/L		118	77 - 120
1,4-Dichlorobenzene	25.0	29.0		ug/L		116	80 - 120
2-Butanone (MEK)	125	148		ug/L		118	57 - 140
2-Hexanone	125	164	*+	ug/L		131	65 - 127
4-Methyl-2-pentanone (MIBK)	125	144		ug/L		115	71 - 125
Acetone	125	152		ug/L		121	56 - 142
Benzene	25.0	24.8		ug/L		99	71 - 124
Bromodichloromethane	25.0	25.1		ug/L		101	80 - 122
Bromoform	25.0	29.0		ug/L		116	61 - 132
Bromomethane	25.0	23.2		ug/L		93	55 - 144
Carbon disulfide	25.0	22.5		ug/L		90	59 - 134
Carbon tetrachloride	25.0	24.6		ug/L		98	72 - 134
Chlorobenzene	25.0	27.2		ug/L		109	80 - 120
Dibromochloromethane	25.0	29.1		ug/L		117	75 - 125
Chloroethane	25.0	23.6		ug/L		94	69 - 136
Chloroform	25.0	24.8		ug/L		99	73 - 127
Chloromethane	25.0	29.4		ug/L		118	68 - 124
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	26.1		ug/L		104	74 - 124
Cyclohexane	25.0	24.3		ug/L		97	59 - 135
Dichlorodifluoromethane	25.0	28.3		ug/L		113	59 - 135
Ethylbenzene	25.0	26.3		ug/L		105	77 - 123
1,2-Dibromoethane	25.0	29.1		ug/L		117	77 - 120
Isopropylbenzene	25.0	27.9		ug/L		112	77 - 122
Methyl acetate	50.0	53.2		ug/L		106	74 - 133
Methyl tert-butyl ether	25.0	25.2		ug/L		101	77 - 120
Methylcyclohexane	25.0	25.0		ug/L		100	68 - 134

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

Lab Sample ID: LCS 480-575496/5
Matrix: Water
Analysis Batch: 575496

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124
Styrene	25.0	27.5		ug/L		110	80 - 120
Tetrachloroethene	25.0	26.7		ug/L		107	74 - 122
Toluene	25.0	26.8		ug/L		107	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	29.4		ug/L		118	80 - 120
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	27.7		ug/L		111	62 - 150
Vinyl chloride	25.0	28.5		ug/L		114	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-575435/1-A
Matrix: Water
Analysis Batch: 575618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		04/07/21 14:52	04/08/21 22:26	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		04/07/21 14:52	04/08/21 22:26	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		04/07/21 14:52	04/08/21 22:26	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		04/07/21 14:52	04/08/21 22:26	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		04/07/21 14:52	04/08/21 22:26	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		04/07/21 14:52	04/08/21 22:26	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		04/07/21 14:52	04/08/21 22:26	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		04/07/21 14:52	04/08/21 22:26	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		04/07/21 14:52	04/08/21 22:26	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		04/07/21 14:52	04/08/21 22:26	1
2-Chlorophenol	ND		5.0	0.53	ug/L		04/07/21 14:52	04/08/21 22:26	1
2-Methylphenol	ND		5.0	0.40	ug/L		04/07/21 14:52	04/08/21 22:26	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		04/07/21 14:52	04/08/21 22:26	1
2-Nitroaniline	ND		10	0.42	ug/L		04/07/21 14:52	04/08/21 22:26	1
2-Nitrophenol	ND		5.0	0.48	ug/L		04/07/21 14:52	04/08/21 22:26	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/07/21 14:52	04/08/21 22:26	1
3-Nitroaniline	ND		10	0.48	ug/L		04/07/21 14:52	04/08/21 22:26	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		04/07/21 14:52	04/08/21 22:26	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		04/07/21 14:52	04/08/21 22:26	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		04/07/21 14:52	04/08/21 22:26	1
4-Chloroaniline	ND		5.0	0.59	ug/L		04/07/21 14:52	04/08/21 22:26	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		04/07/21 14:52	04/08/21 22:26	1
4-Methylphenol	ND		10	0.36	ug/L		04/07/21 14:52	04/08/21 22:26	1
4-Nitroaniline	ND		10	0.25	ug/L		04/07/21 14:52	04/08/21 22:26	1
4-Nitrophenol	ND		10	1.5	ug/L		04/07/21 14:52	04/08/21 22:26	1
Acenaphthene	ND		5.0	0.41	ug/L		04/07/21 14:52	04/08/21 22:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-575435/1-A
Matrix: Water
Analysis Batch: 575618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		04/07/21 14:52	04/08/21 22:26	1
Acetophenone	ND		5.0	0.54	ug/L		04/07/21 14:52	04/08/21 22:26	1
Anthracene	ND		5.0	0.28	ug/L		04/07/21 14:52	04/08/21 22:26	1
Atrazine	ND		5.0	0.46	ug/L		04/07/21 14:52	04/08/21 22:26	1
Benzaldehyde	ND		5.0	0.27	ug/L		04/07/21 14:52	04/08/21 22:26	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/07/21 14:52	04/08/21 22:26	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		04/07/21 14:52	04/08/21 22:26	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/07/21 14:52	04/08/21 22:26	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/07/21 14:52	04/08/21 22:26	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/07/21 14:52	04/08/21 22:26	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		04/07/21 14:52	04/08/21 22:26	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		04/07/21 14:52	04/08/21 22:26	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		04/07/21 14:52	04/08/21 22:26	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		04/07/21 14:52	04/08/21 22:26	1
Caprolactam	ND		5.0	2.2	ug/L		04/07/21 14:52	04/08/21 22:26	1
Carbazole	ND		5.0	0.30	ug/L		04/07/21 14:52	04/08/21 22:26	1
Chrysene	ND		5.0	0.33	ug/L		04/07/21 14:52	04/08/21 22:26	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/07/21 14:52	04/08/21 22:26	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		04/07/21 14:52	04/08/21 22:26	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		04/07/21 14:52	04/08/21 22:26	1
Dibenzofuran	ND		10	0.51	ug/L		04/07/21 14:52	04/08/21 22:26	1
Diethyl phthalate	ND		5.0	0.22	ug/L		04/07/21 14:52	04/08/21 22:26	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		04/07/21 14:52	04/08/21 22:26	1
Fluoranthene	ND		5.0	0.40	ug/L		04/07/21 14:52	04/08/21 22:26	1
Fluorene	ND		5.0	0.36	ug/L		04/07/21 14:52	04/08/21 22:26	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		04/07/21 14:52	04/08/21 22:26	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		04/07/21 14:52	04/08/21 22:26	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		04/07/21 14:52	04/08/21 22:26	1
Hexachloroethane	ND		5.0	0.59	ug/L		04/07/21 14:52	04/08/21 22:26	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/07/21 14:52	04/08/21 22:26	1
Isophorone	ND		5.0	0.43	ug/L		04/07/21 14:52	04/08/21 22:26	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		04/07/21 14:52	04/08/21 22:26	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		04/07/21 14:52	04/08/21 22:26	1
Naphthalene	ND		5.0	0.76	ug/L		04/07/21 14:52	04/08/21 22:26	1
Nitrobenzene	ND		5.0	0.29	ug/L		04/07/21 14:52	04/08/21 22:26	1
Pentachlorophenol	ND		10	2.2	ug/L		04/07/21 14:52	04/08/21 22:26	1
Phenanthrene	ND		5.0	0.44	ug/L		04/07/21 14:52	04/08/21 22:26	1
Phenol	ND		5.0	0.39	ug/L		04/07/21 14:52	04/08/21 22:26	1
Pyrene	ND		5.0	0.34	ug/L		04/07/21 14:52	04/08/21 22:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*46 - 120*	*04/07/21 14:52*	*04/08/21 22:26*	*1*
Phenol-d5 (Surr)	*49*		*22 - 120*	*04/07/21 14:52*	*04/08/21 22:26*	*1*
p-Terphenyl-d14 (Surr)	*96*		*60 - 148*	*04/07/21 14:52*	*04/08/21 22:26*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*41 - 120*	*04/07/21 14:52*	*04/08/21 22:26*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*04/07/21 14:52*	*04/08/21 22:26*	*1*
2-Fluorophenol (Surr)	*64*		*35 - 120*	*04/07/21 14:52*	*04/08/21 22:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-575435/2-A
Matrix: Water
Analysis Batch: 575618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	32.0	27.4		ug/L		86	59 - 120
bis (2-chloroisopropyl) ether	32.0	29.0		ug/L		91	21 - 136
2,4,5-Trichlorophenol	32.0	28.5		ug/L		89	65 - 126
2,4,6-Trichlorophenol	32.0	30.8		ug/L		96	64 - 120
2,4-Dichlorophenol	32.0	29.2		ug/L		91	63 - 120
2,4-Dimethylphenol	32.0	29.4		ug/L		92	47 - 120
2,4-Dinitrophenol	64.0	74.0		ug/L		116	31 - 137
2,4-Dinitrotoluene	32.0	33.4		ug/L		104	69 - 120
2,6-Dinitrotoluene	32.0	31.4		ug/L		98	68 - 120
2-Chloronaphthalene	32.0	27.6		ug/L		86	58 - 120
2-Chlorophenol	32.0	26.7		ug/L		84	48 - 120
2-Methylphenol	32.0	26.6		ug/L		83	39 - 120
2-Methylnaphthalene	32.0	26.7		ug/L		83	59 - 120
2-Nitroaniline	32.0	31.8		ug/L		99	54 - 127
2-Nitrophenol	32.0	30.5		ug/L		95	52 - 125
3,3'-Dichlorobenzidine	64.0	52.1		ug/L		81	49 - 135
3-Nitroaniline	32.0	27.3		ug/L		85	51 - 120
4,6-Dinitro-2-methylphenol	64.0	72.8		ug/L		114	46 - 136
4-Bromophenyl phenyl ether	32.0	28.9		ug/L		90	65 - 120
4-Chloro-3-methylphenol	32.0	31.1		ug/L		97	61 - 123
4-Chloroaniline	32.0	23.9		ug/L		75	30 - 120
4-Chlorophenyl phenyl ether	32.0	28.8		ug/L		90	62 - 120
4-Methylphenol	32.0	26.2		ug/L		82	29 - 131
4-Nitroaniline	32.0	29.6		ug/L		92	65 - 120
4-Nitrophenol	64.0	56.8		ug/L		89	45 - 120
Acenaphthene	32.0	28.2		ug/L		88	60 - 120
Acenaphthylene	32.0	30.0		ug/L		94	63 - 120
Acetophenone	32.0	29.1		ug/L		91	45 - 120
Anthracene	32.0	29.2		ug/L		91	67 - 120
Atrazine	64.0	63.1		ug/L		99	71 - 130
Benzaldehyde	64.0	53.6		ug/L		84	10 - 140
Benzo[a]anthracene	32.0	30.2		ug/L		95	70 - 121
Benzo[a]pyrene	32.0	33.0		ug/L		103	60 - 123
Benzo[b]fluoranthene	32.0	30.9		ug/L		96	66 - 126
Benzo[g,h,i]perylene	32.0	33.6		ug/L		105	66 - 150
Benzo[k]fluoranthene	32.0	30.4		ug/L		95	65 - 124
Bis(2-chloroethoxy)methane	32.0	28.2		ug/L		88	50 - 128
Bis(2-chloroethyl)ether	32.0	26.0		ug/L		81	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	32.6		ug/L		102	63 - 139
Butyl benzyl phthalate	32.0	31.6		ug/L		99	70 - 129
Caprolactam	64.0	22.2		ug/L		35	22 - 120
Carbazole	32.0	29.8		ug/L		93	66 - 123
Chrysene	32.0	29.8		ug/L		93	69 - 120
Dibenz(a,h)anthracene	32.0	32.0		ug/L		100	65 - 135
Di-n-butyl phthalate	32.0	32.4		ug/L		101	69 - 131
Di-n-octyl phthalate	32.0	33.1		ug/L		104	63 - 140
Dibenzofuran	32.0	29.2		ug/L		91	66 - 120
Diethyl phthalate	32.0	31.7		ug/L		99	59 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-575435/2-A
Matrix: Water
Analysis Batch: 575618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	32.0	31.2		ug/L		97	68 - 120
Fluoranthene	32.0	31.1		ug/L		97	69 - 126
Fluorene	32.0	28.9		ug/L		90	66 - 120
Hexachlorobenzene	32.0	29.8		ug/L		93	61 - 120
Hexachlorobutadiene	32.0	24.2		ug/L		76	35 - 120
Hexachlorocyclopentadiene	32.0	19.4		ug/L		61	31 - 120
Hexachloroethane	32.0	24.1		ug/L		75	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	32.0		ug/L		100	69 - 146
Isophorone	32.0	30.0		ug/L		94	55 - 120
N-Nitrosodi-n-propylamine	32.0	29.4		ug/L		92	32 - 140
N-Nitrosodiphenylamine	32.0	28.7		ug/L		90	61 - 120
Naphthalene	32.0	26.1		ug/L		82	57 - 120
Nitrobenzene	32.0	29.4		ug/L		92	53 - 123
Pentachlorophenol	64.0	61.1		ug/L		96	29 - 136
Phenanthrene	32.0	29.9		ug/L		93	68 - 120
Phenol	32.0	18.1		ug/L		57	17 - 120
Pyrene	32.0	30.6		ug/L		96	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*
Phenol-d5 (Surr)	*54*		*22 - 120*
p-Terphenyl-d14 (Surr)	*95*		*60 - 148*
2,4,6-Tribromophenol (Surr)	*95*		*41 - 120*
2-Fluorobiphenyl	*90*		*48 - 120*
2-Fluorophenol (Surr)	*68*		*35 - 120*

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182896-1
Project/Site: Benchmark - 3077 Union Rd

GC/MS VOA

Analysis Batch: 575496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182896-1	PZ-6	Total/NA	Water	8260C	
480-182896-2	PZ-7	Total/NA	Water	8260C	
480-182896-3	PZ-8	Total/NA	Water	8260C	
MB 480-575496/7	Method Blank	Total/NA	Water	8260C	
LCS 480-575496/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 575435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182896-3	PZ-8	Total/NA	Water	3510C	
MB 480-575435/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-575435/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 575618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-575435/1-A	Method Blank	Total/NA	Water	8270D	575435
LCS 480-575435/2-A	Lab Control Sample	Total/NA	Water	8270D	575435

Analysis Batch: 575622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182896-3	PZ-8	Total/NA	Water	8270D	575435

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Client Sample ID: PZ-6

Lab Sample ID: 480-182896-1

Date Collected: 04/06/21 13:00

Matrix: Water

Date Received: 04/06/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575496	04/08/21 14:06	CRL	TAL BUF

Client Sample ID: PZ-7

Lab Sample ID: 480-182896-2

Date Collected: 04/06/21 13:15

Matrix: Water

Date Received: 04/06/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	575496	04/08/21 14:30	CRL	TAL BUF

Client Sample ID: PZ-8

Lab Sample ID: 480-182896-3

Date Collected: 04/06/21 13:30

Matrix: Water

Date Received: 04/06/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575496	04/08/21 14:55	CRL	TAL BUF
Total/NA	Prep	3510C			575435	04/07/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D		1	575622	04/09/21 08:30	PJQ	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-182896-1
Project/Site: Benchmark - 3077 Union Rd

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182896-1	PZ-6	Water	04/06/21 13:00	04/06/21 14:00	
480-182896-2	PZ-7	Water	04/06/21 13:15	04/06/21 14:00	
480-182896-3	PZ-8	Water	04/06/21 13:30	04/06/21 14:00	

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-155500-34449.4
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 4 of 5
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-713-3937	PO #: T0105-017-010			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: Benchmark - 3077 Union Rd	Project #: 48017437			
Site: 3077 Union Rd	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	PFC_IDA - PFAS, Standard List (21 Analytes)	8082A - TCL PCBs - OLM04.2	8081B - TCL Pesticides - OLM04.2	8270D - TCL SVOA - OLM04.2	6010C, 7470A	8151A - Appendix II Herbicides	8270D_SIM_MS_ID - SIM List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	D	N	N		
PZ-6	4/6/21	13:00	G	Water			X								3	
PZ-7		13:15	G	Water			X								3	
PZ-8		13:30	G	Water			X				X				4	
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

480-182896 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B, NYS Dec QAQC

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		4/6/21 14:00				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/6/21 1400	Company TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.8 #1

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-182896-1

Login Number: 182896

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-60682-1
Client Project/Site: 3077 Union Rd Site - Orchard Park, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
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LINKS

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

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

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

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 200-60682-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

Job Narrative
200-60682-1

Comments
No additional comments.

Receipt
The samples were received on 10/23/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Receipt Exceptions

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure. The associated flow controller was evaluated and was found to be within the acceptable flow range as compared to the original set flow rate: BLIND DUP (200-60682-6).

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure. The associated flow controller was evaluated and was found to be outisde the acceptable flow range as compared to the original set flow rate: SV-1 (200-60682-1) and SV-4 (200-60682-4).

Air Toxics
Method TO-15: The continuing calibration verification (CCV) associated with batch 200-173380 recovered above the upper control limit for Tetrahydrofuran and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SV-1 (200-60682-1), SV-3 (200-60682-3), SV-4 (200-60682-4), OA-1 (200-60682-5) and BLIND DUP (200-60682-6).

Method TO-15: The laboratory control sample (LCS) for analytical batch 200-173380 recovered outside control limits for the following analytes: 1,2-Dichloroethane, Tetrahydrofuran and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SV-1
Lab Sample ID: 200-60682-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.7		1.0	0.17	ppb v/v	1		TO-15	Total/NA
Acetone	23		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.074	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.73		0.50	0.12	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.10	J	0.20	0.10	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.25	J	0.50	0.17	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.23	J	0.80	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.18	J	0.20	0.094	ppb v/v	1		TO-15	Total/NA
Toluene	0.40		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.15	J	0.20	0.052	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.9		2.9	0.50	ug/m3	1		TO-15	Total/NA
Acetone	54		12	4.8	ug/m3	1		TO-15	Total/NA
Benzene	0.76		0.64	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.5		1.0	0.25	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.44	J	0.87	0.43	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.87	J	1.7	0.59	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.99	J	3.5	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	0.78	J	0.87	0.41	ug/m3	1		TO-15	Total/NA
Toluene	1.5		0.75	0.35	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	0.84	J	1.1	0.29	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-2
Lab Sample ID: 200-60682-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	25		10	1.7	ppb v/v	10		TO-15	Total/NA
Acetone	180		50	20	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	5.5		5.0	1.3	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	74		29	5.0	ug/m3	10		TO-15	Total/NA
Acetone	440		120	48	ug/m3	10		TO-15	Total/NA
Carbon disulfide	17		16	4.0	ug/m3	10		TO-15	Total/NA

Client Sample ID: SV-3
Lab Sample ID: 200-60682-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	21		5.0	0.85	ppb v/v	5		TO-15	Total/NA
Acetone	140		25	10	ppb v/v	5		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	61		15	2.5	ug/m3	5		TO-15	Total/NA
Acetone	340		59	24	ug/m3	5		TO-15	Total/NA

Client Sample ID: SV-4
Lab Sample ID: 200-60682-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	35		5.0	0.85	ppb v/v	5		TO-15	Total/NA
Acetone	130		25	10	ppb v/v	5		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	100		15	2.5	ug/m3	5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SV-4 (Continued)
Lab Sample ID: 200-60682-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	300		59	24	ug/m3	5		TO-15	Total/NA

Client Sample ID: OA-1
Lab Sample ID: 200-60682-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.6		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.55		0.50	0.12	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Toluene	0.24		0.20	0.093	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	27		12	4.8	ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.9		1.6	0.40	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.25	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2	J	2.5	0.54	ug/m3	1		TO-15	Total/NA
Toluene	0.92		0.75	0.35	ug/m3	1		TO-15	Total/NA

Client Sample ID: BLIND DUP
Lab Sample ID: 200-60682-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.18	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.5		1.0	0.17	ppb v/v	1		TO-15	Total/NA
Acetone	25		5.0	2.0	ppb v/v	1		TO-15	Total/NA
Benzene	0.30		0.20	0.074	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.54		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.12	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.87		0.50	0.12	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.57		0.50	0.11	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.24	J	0.80	0.17	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.29		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Toluene	0.37		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.052	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.89	J	0.98	0.23	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	4.4		2.9	0.50	ug/m3	1		TO-15	Total/NA
Acetone	58		12	4.8	ug/m3	1		TO-15	Total/NA
Benzene	0.96		0.64	0.24	ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.7		1.6	0.40	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.73	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Chloromethane	1.8		1.0	0.25	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.8		2.5	0.54	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.0	J	3.5	0.74	ug/m3	1		TO-15	Total/NA
o-Xylene	1.3		0.87	0.41	ug/m3	1		TO-15	Total/NA
Toluene	1.4		0.75	0.35	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.29	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-1

Date Collected: 10/21/21 15:33
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			11/02/21 15:14	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			11/02/21 15:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 15:14	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			11/02/21 15:14	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			11/02/21 15:14	1
1,1-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			11/02/21 15:14	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.19	ppb v/v			11/02/21 15:14	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			11/02/21 15:14	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.046	ppb v/v			11/02/21 15:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 15:14	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			11/02/21 15:14	1
1,2-Dichloroethane	0.20	U *+	0.20	0.15	ppb v/v			11/02/21 15:14	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			11/02/21 15:14	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			11/02/21 15:14	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			11/02/21 15:14	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			11/02/21 15:14	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			11/02/21 15:14	1
2-Butanone (MEK)	**1.7**		1.0	0.17	ppb v/v			11/02/21 15:14	1
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50	0.19	ppb v/v			11/02/21 15:14	1
Acetone	**23**		5.0	2.0	ppb v/v			11/02/21 15:14	1
Benzene	**0.24**		0.20	0.074	ppb v/v			11/02/21 15:14	1
Benzyl chloride	0.80	U	0.80	0.074	ppb v/v			11/02/21 15:14	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			11/02/21 15:14	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			11/02/21 15:14	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			11/02/21 15:14	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			11/02/21 15:14	1
Carbon tetrachloride	0.20	U	0.20	0.032	ppb v/v			11/02/21 15:14	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			11/02/21 15:14	1
Chloroethane	0.80	U	0.80	0.25	ppb v/v			11/02/21 15:14	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			11/02/21 15:14	1
Chloromethane	**0.73**		0.50	0.12	ppb v/v			11/02/21 15:14	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.033	ppb v/v			11/02/21 15:14	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			11/02/21 15:14	1
Cyclohexane	0.50	U	0.50	0.035	ppb v/v			11/02/21 15:14	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			11/02/21 15:14	1
Dichlorodifluoromethane	**0.43**	**J**	0.50	0.11	ppb v/v			11/02/21 15:14	1
Ethylbenzene	**0.10**	**J**	0.20	0.10	ppb v/v			11/02/21 15:14	1
Hexachlorobutadiene	2.0	U	2.0	0.031	ppb v/v			11/02/21 15:14	1
Hexane	0.80	U	0.80	0.23	ppb v/v			11/02/21 15:14	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			11/02/21 15:14	1
Isopropylbenzene	0.80	U	0.80	0.037	ppb v/v			11/02/21 15:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.080	ppb v/v			11/02/21 15:14	1
Methylene Chloride	**0.25**	**J**	0.50	0.17	ppb v/v			11/02/21 15:14	1
m-Xylene & p-Xylene	**0.23**	**J**	0.80	0.17	ppb v/v			11/02/21 15:14	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			11/02/21 15:14	1
o-Xylene	**0.18**	**J**	0.20	0.094	ppb v/v			11/02/21 15:14	1
Styrene	0.20	U	0.20	0.032	ppb v/v			11/02/21 15:14	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			11/02/21 15:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-1
Date Collected: 10/21/21 15:33
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	5.0	U *+	5.0	1.2	ppb v/v			11/02/21 15:14	1
Toluene	**0.40**		0.20	0.093	ppb v/v			11/02/21 15:14	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			11/02/21 15:14	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			11/02/21 15:14	1
Trichloroethene	0.20	U	0.20	0.024	ppb v/v			11/02/21 15:14	1
Trichlorofluoromethane	**0.15**	**J**	0.20	0.052	ppb v/v			11/02/21 15:14	1
Vinyl acetate	5.0	U *+	5.0	2.1	ppb v/v			11/02/21 15:14	1
Vinyl bromide	0.20	U	0.20	0.085	ppb v/v			11/02/21 15:14	1
Vinyl chloride	0.20	U	0.20	0.028	ppb v/v			11/02/21 15:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			11/02/21 15:14	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			11/02/21 15:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U	1.5	0.42	ug/m3			11/02/21 15:14	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			11/02/21 15:14	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			11/02/21 15:14	1
1,1-Dichloroethene	0.79	U	0.79	0.11	ug/m3			11/02/21 15:14	1
1,2,4-Trichlorobenzene	15	U	15	1.4	ug/m3			11/02/21 15:14	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			11/02/21 15:14	1
1,2-Dibromoethane (EDB)	1.5	U	1.5	0.35	ug/m3			11/02/21 15:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	U	1.4	0.38	ug/m3			11/02/21 15:14	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			11/02/21 15:14	1
1,2-Dichloroethane	0.81	U *+	0.81	0.61	ug/m3			11/02/21 15:14	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			11/02/21 15:14	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			11/02/21 15:14	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			11/02/21 15:14	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			11/02/21 15:14	1
1,4-Dioxane	18	U	18	6.1	ug/m3			11/02/21 15:14	1
2-Butanone (MEK)	**4.9**		2.9	0.50	ug/m3			11/02/21 15:14	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.78	ug/m3			11/02/21 15:14	1
Acetone	**54**		12	4.8	ug/m3			11/02/21 15:14	1
Benzene	**0.76**		0.64	0.24	ug/m3			11/02/21 15:14	1
Benzyl chloride	4.1	U	4.1	0.38	ug/m3			11/02/21 15:14	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			11/02/21 15:14	1
Bromoform	2.1	U	2.1	0.60	ug/m3			11/02/21 15:14	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			11/02/21 15:14	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			11/02/21 15:14	1
Carbon tetrachloride	1.3	U	1.3	0.20	ug/m3			11/02/21 15:14	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			11/02/21 15:14	1
Chloroethane	2.1	U	2.1	0.66	ug/m3			11/02/21 15:14	1
Chloroform	0.98	U	0.98	0.22	ug/m3			11/02/21 15:14	1
Chloromethane	**1.5**		1.0	0.25	ug/m3			11/02/21 15:14	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.13	ug/m3			11/02/21 15:14	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			11/02/21 15:14	1
Cyclohexane	1.7	U	1.7	0.12	ug/m3			11/02/21 15:14	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			11/02/21 15:14	1
Dichlorodifluoromethane	**2.1**	**J**	2.5	0.54	ug/m3			11/02/21 15:14	1
Ethylbenzene	**0.44**	**J**	0.87	0.43	ug/m3			11/02/21 15:14	1
Hexachlorobutadiene	21	U	21	0.33	ug/m3			11/02/21 15:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SV-1
Lab Sample ID: 200-60682-1
Date Collected: 10/21/21 15:33
Matrix: Air
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	2.8	U	2.8	0.81	ug/m3			11/02/21 15:14	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			11/02/21 15:14	1
Isopropylbenzene	3.9	U	3.9	0.18	ug/m3			11/02/21 15:14	1
Methyl tert-butyl ether	3.6	U	3.6	0.29	ug/m3			11/02/21 15:14	1
Methylene Chloride	**0.87**	**J**	1.7	0.59	ug/m3			11/02/21 15:14	1
m-Xylene & p-Xylene	**0.99**	**J**	3.5	0.74	ug/m3			11/02/21 15:14	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			11/02/21 15:14	1
o-Xylene	**0.78**	**J**	0.87	0.41	ug/m3			11/02/21 15:14	1
Styrene	0.85	U	0.85	0.14	ug/m3			11/02/21 15:14	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			11/02/21 15:14	1
Tetrahydrofuran	15	U *+	15	3.5	ug/m3			11/02/21 15:14	1
Toluene	**1.5**		0.75	0.35	ug/m3			11/02/21 15:14	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			11/02/21 15:14	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			11/02/21 15:14	1
Trichloroethene	1.1	U	1.1	0.13	ug/m3			11/02/21 15:14	1
Trichlorofluoromethane	**0.84**	**J**	1.1	0.29	ug/m3			11/02/21 15:14	1
Vinyl acetate	18	U *+	18	7.4	ug/m3			11/02/21 15:14	1
Vinyl bromide	0.87	U	0.87	0.37	ug/m3			11/02/21 15:14	1
Vinyl chloride	0.51	U	0.51	0.072	ug/m3			11/02/21 15:14	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SV-2
Lab Sample ID: 200-60682-2

Date Collected: 10/21/21 18:55
Matrix: Air
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			11/02/21 16:07	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			11/02/21 16:07	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.55	ppb v/v			11/02/21 16:07	10
1,1,2-Trichloroethane	2.0	U	2.0	0.34	ppb v/v			11/02/21 16:07	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			11/02/21 16:07	10
1,1-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			11/02/21 16:07	10
1,2,4-Trichlorobenzene	20	U	20	1.9	ppb v/v			11/02/21 16:07	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			11/02/21 16:07	10
1,2-Dibromoethane (EDB)	2.0	U	2.0	0.46	ppb v/v			11/02/21 16:07	10
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.0	U	2.0	0.55	ppb v/v			11/02/21 16:07	10
1,2-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			11/02/21 16:07	10
1,2-Dichloroethane	2.0	U *+	2.0	1.5	ppb v/v			11/02/21 16:07	10
1,2-Dichloropropane	2.0	U	2.0	0.87	ppb v/v			11/02/21 16:07	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.44	ppb v/v			11/02/21 16:07	10
1,3-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			11/02/21 16:07	10
1,4-Dichlorobenzene	2.0	U	2.0	0.95	ppb v/v			11/02/21 16:07	10
1,4-Dioxane	50	U	50	17	ppb v/v			11/02/21 16:07	10
2-Butanone (MEK)	**25**		10	1.7	ppb v/v			11/02/21 16:07	10
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.9	ppb v/v			11/02/21 16:07	10
Acetone	**180**		50	20	ppb v/v			11/02/21 16:07	10
Benzene	2.0	U	2.0	0.74	ppb v/v			11/02/21 16:07	10
Benzyl chloride	8.0	U	8.0	0.74	ppb v/v			11/02/21 16:07	10
Bromodichloromethane	2.0	U	2.0	0.40	ppb v/v			11/02/21 16:07	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			11/02/21 16:07	10
Bromomethane	2.0	U	2.0	0.52	ppb v/v			11/02/21 16:07	10
Carbon disulfide	**5.5**		5.0	1.3	ppb v/v			11/02/21 16:07	10
Carbon tetrachloride	2.0	U	2.0	0.32	ppb v/v			11/02/21 16:07	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			11/02/21 16:07	10
Chloroethane	8.0	U	8.0	2.5	ppb v/v			11/02/21 16:07	10
Chloroform	2.0	U	2.0	0.46	ppb v/v			11/02/21 16:07	10
Chloromethane	5.0	U	5.0	1.2	ppb v/v			11/02/21 16:07	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.33	ppb v/v			11/02/21 16:07	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.20	ppb v/v			11/02/21 16:07	10
Cyclohexane	5.0	U	5.0	0.35	ppb v/v			11/02/21 16:07	10
Dibromochloromethane	2.0	U	2.0	0.31	ppb v/v			11/02/21 16:07	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			11/02/21 16:07	10
Ethylbenzene	2.0	U	2.0	1.0	ppb v/v			11/02/21 16:07	10
Hexachlorobutadiene	20	U	20	0.31	ppb v/v			11/02/21 16:07	10
Hexane	8.0	U	8.0	2.3	ppb v/v			11/02/21 16:07	10
Isopropyl alcohol	50	U	50	9.8	ppb v/v			11/02/21 16:07	10
Isopropylbenzene	8.0	U	8.0	0.37	ppb v/v			11/02/21 16:07	10
Methyl tert-butyl ether	10	U	10	0.80	ppb v/v			11/02/21 16:07	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			11/02/21 16:07	10
m-Xylene & p-Xylene	8.0	U	8.0	1.7	ppb v/v			11/02/21 16:07	10
Naphthalene	5.0	U	5.0	1.7	ppb v/v			11/02/21 16:07	10
o-Xylene	2.0	U	2.0	0.94	ppb v/v			11/02/21 16:07	10
Styrene	2.0	U	2.0	0.32	ppb v/v			11/02/21 16:07	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			11/02/21 16:07	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-2
Date Collected: 10/21/21 18:55
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	50	U *+	50	12	ppb v/v			11/02/21 16:07	10
Toluene	2.0	U	2.0	0.93	ppb v/v			11/02/21 16:07	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			11/02/21 16:07	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.89	ppb v/v			11/02/21 16:07	10
Trichloroethene	2.0	U	2.0	0.24	ppb v/v			11/02/21 16:07	10
Trichlorofluoromethane	2.0	U	2.0	0.52	ppb v/v			11/02/21 16:07	10
Vinyl acetate	50	U *+	50	21	ppb v/v			11/02/21 16:07	10
Vinyl bromide	2.0	U	2.0	0.85	ppb v/v			11/02/21 16:07	10
Vinyl chloride	2.0	U	2.0	0.28	ppb v/v			11/02/21 16:07	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			11/02/21 16:07	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			11/02/21 16:07	10
1,1,2-Trichloro-1,2,2-trifluoroethane	15	U	15	4.2	ug/m3			11/02/21 16:07	10
1,1,2-Trichloroethane	11	U	11	1.9	ug/m3			11/02/21 16:07	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			11/02/21 16:07	10
1,1-Dichloroethene	7.9	U	7.9	1.1	ug/m3			11/02/21 16:07	10
1,2,4-Trichlorobenzene	150	U	150	14	ug/m3			11/02/21 16:07	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			11/02/21 16:07	10
1,2-Dibromoethane (EDB)	15	U	15	3.5	ug/m3			11/02/21 16:07	10
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	U	14	3.8	ug/m3			11/02/21 16:07	10
1,2-Dichlorobenzene	12	U	12	4.2	ug/m3			11/02/21 16:07	10
1,2-Dichloroethane	8.1	U *+	8.1	6.1	ug/m3			11/02/21 16:07	10
1,2-Dichloropropane	9.2	U	9.2	4.0	ug/m3			11/02/21 16:07	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.2	ug/m3			11/02/21 16:07	10
1,3-Dichlorobenzene	12	U	12	5.4	ug/m3			11/02/21 16:07	10
1,4-Dichlorobenzene	12	U	12	5.7	ug/m3			11/02/21 16:07	10
1,4-Dioxane	180	U	180	61	ug/m3			11/02/21 16:07	10
2-Butanone (MEK)	**74**		29	5.0	ug/m3			11/02/21 16:07	10
4-Methyl-2-pentanone (MIBK)	20	U	20	7.8	ug/m3			11/02/21 16:07	10
Acetone	**440**		120	48	ug/m3			11/02/21 16:07	10
Benzene	6.4	U	6.4	2.4	ug/m3			11/02/21 16:07	10
Benzyl chloride	41	U	41	3.8	ug/m3			11/02/21 16:07	10
Bromodichloromethane	13	U	13	2.7	ug/m3			11/02/21 16:07	10
Bromoform	21	U	21	6.0	ug/m3			11/02/21 16:07	10
Bromomethane	7.8	U	7.8	2.0	ug/m3			11/02/21 16:07	10
Carbon disulfide	**17**		16	4.0	ug/m3			11/02/21 16:07	10
Carbon tetrachloride	13	U	13	2.0	ug/m3			11/02/21 16:07	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			11/02/21 16:07	10
Chloroethane	21	U	21	6.6	ug/m3			11/02/21 16:07	10
Chloroform	9.8	U	9.8	2.2	ug/m3			11/02/21 16:07	10
Chloromethane	10	U	10	2.5	ug/m3			11/02/21 16:07	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.3	ug/m3			11/02/21 16:07	10
cis-1,3-Dichloropropene	9.1	U	9.1	0.91	ug/m3			11/02/21 16:07	10
Cyclohexane	17	U	17	1.2	ug/m3			11/02/21 16:07	10
Dibromochloromethane	17	U	17	2.6	ug/m3			11/02/21 16:07	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			11/02/21 16:07	10
Ethylbenzene	8.7	U	8.7	4.3	ug/m3			11/02/21 16:07	10
Hexachlorobutadiene	210	U	210	3.3	ug/m3			11/02/21 16:07	10

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SV-2
Lab Sample ID: 200-60682-2
Date Collected: 10/21/21 18:55
Matrix: Air
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	28	U	28	8.1	ug/m3			11/02/21 16:07	10
Isopropyl alcohol	120	U	120	24	ug/m3			11/02/21 16:07	10
Isopropylbenzene	39	U	39	1.8	ug/m3			11/02/21 16:07	10
Methyl tert-butyl ether	36	U	36	2.9	ug/m3			11/02/21 16:07	10
Methylene Chloride	17	U	17	5.9	ug/m3			11/02/21 16:07	10
m-Xylene & p-Xylene	35	U	35	7.4	ug/m3			11/02/21 16:07	10
Naphthalene	26	U	26	8.9	ug/m3			11/02/21 16:07	10
o-Xylene	8.7	U	8.7	4.1	ug/m3			11/02/21 16:07	10
Styrene	8.5	U	8.5	1.4	ug/m3			11/02/21 16:07	10
Tetrachloroethene	14	U	14	1.8	ug/m3			11/02/21 16:07	10
Tetrahydrofuran	150	U *+	150	35	ug/m3			11/02/21 16:07	10
Toluene	7.5	U	7.5	3.5	ug/m3			11/02/21 16:07	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			11/02/21 16:07	10
trans-1,3-Dichloropropene	9.1	U	9.1	4.0	ug/m3			11/02/21 16:07	10
Trichloroethene	11	U	11	1.3	ug/m3			11/02/21 16:07	10
Trichlorofluoromethane	11	U	11	2.9	ug/m3			11/02/21 16:07	10
Vinyl acetate	180	U *+	180	74	ug/m3			11/02/21 16:07	10
Vinyl bromide	8.7	U	8.7	3.7	ug/m3			11/02/21 16:07	10
Vinyl chloride	5.1	U	5.1	0.72	ug/m3			11/02/21 16:07	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-3

Date Collected: 10/21/21 15:31
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ppb v/v			11/02/21 17:00	5
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ppb v/v			11/02/21 17:00	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ppb v/v			11/02/21 17:00	5
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ppb v/v			11/02/21 17:00	5
1,1-Dichloroethane	1.0	U	1.0	0.15	ppb v/v			11/02/21 17:00	5
1,1-Dichloroethene	1.0	U	1.0	0.15	ppb v/v			11/02/21 17:00	5
1,2,4-Trichlorobenzene	10	U	10	0.95	ppb v/v			11/02/21 17:00	5
1,2,4-Trimethylbenzene	1.0	U	1.0	0.24	ppb v/v			11/02/21 17:00	5
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.23	ppb v/v			11/02/21 17:00	5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.0	U	1.0	0.28	ppb v/v			11/02/21 17:00	5
1,2-Dichlorobenzene	1.0	U	1.0	0.35	ppb v/v			11/02/21 17:00	5
1,2-Dichloroethane	1.0	U *+	1.0	0.75	ppb v/v			11/02/21 17:00	5
1,2-Dichloropropane	1.0	U	1.0	0.44	ppb v/v			11/02/21 17:00	5
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ppb v/v			11/02/21 17:00	5
1,3-Dichlorobenzene	1.0	U	1.0	0.45	ppb v/v			11/02/21 17:00	5
1,4-Dichlorobenzene	1.0	U	1.0	0.48	ppb v/v			11/02/21 17:00	5
1,4-Dioxane	25	U	25	8.5	ppb v/v			11/02/21 17:00	5
2-Butanone (MEK)	**21**		5.0	0.85	ppb v/v			11/02/21 17:00	5
4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.95	ppb v/v			11/02/21 17:00	5
Acetone	**140**		25	10	ppb v/v			11/02/21 17:00	5
Benzene	1.0	U	1.0	0.37	ppb v/v			11/02/21 17:00	5
Benzyl chloride	4.0	U	4.0	0.37	ppb v/v			11/02/21 17:00	5
Bromodichloromethane	1.0	U	1.0	0.20	ppb v/v			11/02/21 17:00	5
Bromoform	1.0	U	1.0	0.29	ppb v/v			11/02/21 17:00	5
Bromomethane	1.0	U	1.0	0.26	ppb v/v			11/02/21 17:00	5
Carbon disulfide	2.5	U	2.5	0.65	ppb v/v			11/02/21 17:00	5
Carbon tetrachloride	1.0	U	1.0	0.16	ppb v/v			11/02/21 17:00	5
Chlorobenzene	1.0	U	1.0	0.22	ppb v/v			11/02/21 17:00	5
Chloroethane	4.0	U	4.0	1.3	ppb v/v			11/02/21 17:00	5
Chloroform	1.0	U	1.0	0.23	ppb v/v			11/02/21 17:00	5
Chloromethane	2.5	U	2.5	0.60	ppb v/v			11/02/21 17:00	5
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ppb v/v			11/02/21 17:00	5
cis-1,3-Dichloropropene	1.0	U	1.0	0.10	ppb v/v			11/02/21 17:00	5
Cyclohexane	2.5	U	2.5	0.18	ppb v/v			11/02/21 17:00	5
Dibromochloromethane	1.0	U	1.0	0.16	ppb v/v			11/02/21 17:00	5
Dichlorodifluoromethane	2.5	U	2.5	0.55	ppb v/v			11/02/21 17:00	5
Ethylbenzene	1.0	U	1.0	0.50	ppb v/v			11/02/21 17:00	5
Hexachlorobutadiene	10	U	10	0.16	ppb v/v			11/02/21 17:00	5
Hexane	4.0	U	4.0	1.2	ppb v/v			11/02/21 17:00	5
Isopropyl alcohol	25	U	25	4.9	ppb v/v			11/02/21 17:00	5
Isopropylbenzene	4.0	U	4.0	0.19	ppb v/v			11/02/21 17:00	5
Methyl tert-butyl ether	5.0	U	5.0	0.40	ppb v/v			11/02/21 17:00	5
Methylene Chloride	2.5	U	2.5	0.85	ppb v/v			11/02/21 17:00	5
m-Xylene & p-Xylene	4.0	U	4.0	0.85	ppb v/v			11/02/21 17:00	5
Naphthalene	2.5	U	2.5	0.85	ppb v/v			11/02/21 17:00	5
o-Xylene	1.0	U	1.0	0.47	ppb v/v			11/02/21 17:00	5
Styrene	1.0	U	1.0	0.16	ppb v/v			11/02/21 17:00	5
Tetrachloroethene	1.0	U	1.0	0.14	ppb v/v			11/02/21 17:00	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-3
Date Collected: 10/21/21 15:31
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	25	U *+	25	6.0	ppb v/v			11/02/21 17:00	5
Toluene	1.0	U	1.0	0.47	ppb v/v			11/02/21 17:00	5
trans-1,2-Dichloroethene	1.0	U	1.0	0.44	ppb v/v			11/02/21 17:00	5
trans-1,3-Dichloropropene	1.0	U	1.0	0.45	ppb v/v			11/02/21 17:00	5
Trichloroethene	1.0	U	1.0	0.12	ppb v/v			11/02/21 17:00	5
Trichlorofluoromethane	1.0	U	1.0	0.26	ppb v/v			11/02/21 17:00	5
Vinyl acetate	25	U *+	25	11	ppb v/v			11/02/21 17:00	5
Vinyl bromide	1.0	U	1.0	0.43	ppb v/v			11/02/21 17:00	5
Vinyl chloride	1.0	U	1.0	0.14	ppb v/v			11/02/21 17:00	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.5	U	5.5	1.1	ug/m3			11/02/21 17:00	5
1,1,2,2-Tetrachloroethane	6.9	U	6.9	1.5	ug/m3			11/02/21 17:00	5
1,1,2-Trichloro-1,2,2-trifluoroethane	7.7	U	7.7	2.1	ug/m3			11/02/21 17:00	5
1,1,2-Trichloroethane	5.5	U	5.5	0.93	ug/m3			11/02/21 17:00	5
1,1-Dichloroethane	4.0	U	4.0	0.59	ug/m3			11/02/21 17:00	5
1,1-Dichloroethene	4.0	U	4.0	0.57	ug/m3			11/02/21 17:00	5
1,2,4-Trichlorobenzene	74	U	74	7.1	ug/m3			11/02/21 17:00	5
1,2,4-Trimethylbenzene	4.9	U	4.9	1.2	ug/m3			11/02/21 17:00	5
1,2-Dibromoethane (EDB)	7.7	U	7.7	1.8	ug/m3			11/02/21 17:00	5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	7.0	U	7.0	1.9	ug/m3			11/02/21 17:00	5
1,2-Dichlorobenzene	6.0	U	6.0	2.1	ug/m3			11/02/21 17:00	5
1,2-Dichloroethane	4.0	U *+	4.0	3.0	ug/m3			11/02/21 17:00	5
1,2-Dichloropropane	4.6	U	4.6	2.0	ug/m3			11/02/21 17:00	5
1,3,5-Trimethylbenzene	4.9	U	4.9	1.1	ug/m3			11/02/21 17:00	5
1,3-Dichlorobenzene	6.0	U	6.0	2.7	ug/m3			11/02/21 17:00	5
1,4-Dichlorobenzene	6.0	U	6.0	2.9	ug/m3			11/02/21 17:00	5
1,4-Dioxane	90	U	90	31	ug/m3			11/02/21 17:00	5
2-Butanone (MEK)	**61**		15	2.5	ug/m3			11/02/21 17:00	5
4-Methyl-2-pentanone (MIBK)	10	U	10	3.9	ug/m3			11/02/21 17:00	5
Acetone	**340**		59	24	ug/m3			11/02/21 17:00	5
Benzene	3.2	U	3.2	1.2	ug/m3			11/02/21 17:00	5
Benzyl chloride	21	U	21	1.9	ug/m3			11/02/21 17:00	5
Bromodichloromethane	6.7	U	6.7	1.3	ug/m3			11/02/21 17:00	5
Bromoform	10	U	10	3.0	ug/m3			11/02/21 17:00	5
Bromomethane	3.9	U	3.9	1.0	ug/m3			11/02/21 17:00	5
Carbon disulfide	7.8	U	7.8	2.0	ug/m3			11/02/21 17:00	5
Carbon tetrachloride	6.3	U	6.3	1.0	ug/m3			11/02/21 17:00	5
Chlorobenzene	4.6	U	4.6	0.99	ug/m3			11/02/21 17:00	5
Chloroethane	11	U	11	3.3	ug/m3			11/02/21 17:00	5
Chloroform	4.9	U	4.9	1.1	ug/m3			11/02/21 17:00	5
Chloromethane	5.2	U	5.2	1.2	ug/m3			11/02/21 17:00	5
cis-1,2-Dichloroethene	4.0	U	4.0	0.65	ug/m3			11/02/21 17:00	5
cis-1,3-Dichloropropene	4.5	U	4.5	0.45	ug/m3			11/02/21 17:00	5
Cyclohexane	8.6	U	8.6	0.60	ug/m3			11/02/21 17:00	5
Dibromochloromethane	8.5	U	8.5	1.3	ug/m3			11/02/21 17:00	5
Dichlorodifluoromethane	12	U	12	2.7	ug/m3			11/02/21 17:00	5
Ethylbenzene	4.3	U	4.3	2.2	ug/m3			11/02/21 17:00	5
Hexachlorobutadiene	110	U	110	1.7	ug/m3			11/02/21 17:00	5

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SV-3
Lab Sample ID: 200-60682-3
Date Collected: 10/21/21 15:31
Matrix: Air
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	14	U	14	4.1	ug/m3			11/02/21 17:00	5
Isopropyl alcohol	61	U	61	12	ug/m3			11/02/21 17:00	5
Isopropylbenzene	20	U	20	0.91	ug/m3			11/02/21 17:00	5
Methyl tert-butyl ether	18	U	18	1.4	ug/m3			11/02/21 17:00	5
Methylene Chloride	8.7	U	8.7	3.0	ug/m3			11/02/21 17:00	5
m-Xylene & p-Xylene	17	U	17	3.7	ug/m3			11/02/21 17:00	5
Naphthalene	13	U	13	4.5	ug/m3			11/02/21 17:00	5
o-Xylene	4.3	U	4.3	2.0	ug/m3			11/02/21 17:00	5
Styrene	4.3	U	4.3	0.68	ug/m3			11/02/21 17:00	5
Tetrachloroethene	6.8	U	6.8	0.92	ug/m3			11/02/21 17:00	5
Tetrahydrofuran	74	U *+	74	18	ug/m3			11/02/21 17:00	5
Toluene	3.8	U	3.8	1.8	ug/m3			11/02/21 17:00	5
trans-1,2-Dichloroethene	4.0	U	4.0	1.7	ug/m3			11/02/21 17:00	5
trans-1,3-Dichloropropene	4.5	U	4.5	2.0	ug/m3			11/02/21 17:00	5
Trichloroethene	5.4	U	5.4	0.64	ug/m3			11/02/21 17:00	5
Trichlorofluoromethane	5.6	U	5.6	1.5	ug/m3			11/02/21 17:00	5
Vinyl acetate	88	U *+	88	37	ug/m3			11/02/21 17:00	5
Vinyl bromide	4.4	U	4.4	1.9	ug/m3			11/02/21 17:00	5
Vinyl chloride	2.6	U	2.6	0.36	ug/m3			11/02/21 17:00	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-4

Date Collected: 10/21/21 15:32
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ppb v/v			11/02/21 17:52	5
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ppb v/v			11/02/21 17:52	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ppb v/v			11/02/21 17:52	5
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ppb v/v			11/02/21 17:52	5
1,1-Dichloroethane	1.0	U	1.0	0.15	ppb v/v			11/02/21 17:52	5
1,1-Dichloroethene	1.0	U	1.0	0.15	ppb v/v			11/02/21 17:52	5
1,2,4-Trichlorobenzene	10	U	10	0.95	ppb v/v			11/02/21 17:52	5
1,2,4-Trimethylbenzene	1.0	U	1.0	0.24	ppb v/v			11/02/21 17:52	5
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.23	ppb v/v			11/02/21 17:52	5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.0	U	1.0	0.28	ppb v/v			11/02/21 17:52	5
1,2-Dichlorobenzene	1.0	U	1.0	0.35	ppb v/v			11/02/21 17:52	5
1,2-Dichloroethane	1.0	U *+	1.0	0.75	ppb v/v			11/02/21 17:52	5
1,2-Dichloropropane	1.0	U	1.0	0.44	ppb v/v			11/02/21 17:52	5
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ppb v/v			11/02/21 17:52	5
1,3-Dichlorobenzene	1.0	U	1.0	0.45	ppb v/v			11/02/21 17:52	5
1,4-Dichlorobenzene	1.0	U	1.0	0.48	ppb v/v			11/02/21 17:52	5
1,4-Dioxane	25	U	25	8.5	ppb v/v			11/02/21 17:52	5
2-Butanone (MEK)	**35**		5.0	0.85	ppb v/v			11/02/21 17:52	5
4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.95	ppb v/v			11/02/21 17:52	5
Acetone	**130**		25	10	ppb v/v			11/02/21 17:52	5
Benzene	1.0	U	1.0	0.37	ppb v/v			11/02/21 17:52	5
Benzyl chloride	4.0	U	4.0	0.37	ppb v/v			11/02/21 17:52	5
Bromodichloromethane	1.0	U	1.0	0.20	ppb v/v			11/02/21 17:52	5
Bromoform	1.0	U	1.0	0.29	ppb v/v			11/02/21 17:52	5
Bromomethane	1.0	U	1.0	0.26	ppb v/v			11/02/21 17:52	5
Carbon disulfide	2.5	U	2.5	0.65	ppb v/v			11/02/21 17:52	5
Carbon tetrachloride	1.0	U	1.0	0.16	ppb v/v			11/02/21 17:52	5
Chlorobenzene	1.0	U	1.0	0.22	ppb v/v			11/02/21 17:52	5
Chloroethane	4.0	U	4.0	1.3	ppb v/v			11/02/21 17:52	5
Chloroform	1.0	U	1.0	0.23	ppb v/v			11/02/21 17:52	5
Chloromethane	2.5	U	2.5	0.60	ppb v/v			11/02/21 17:52	5
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ppb v/v			11/02/21 17:52	5
cis-1,3-Dichloropropene	1.0	U	1.0	0.10	ppb v/v			11/02/21 17:52	5
Cyclohexane	2.5	U	2.5	0.18	ppb v/v			11/02/21 17:52	5
Dibromochloromethane	1.0	U	1.0	0.16	ppb v/v			11/02/21 17:52	5
Dichlorodifluoromethane	2.5	U	2.5	0.55	ppb v/v			11/02/21 17:52	5
Ethylbenzene	1.0	U	1.0	0.50	ppb v/v			11/02/21 17:52	5
Hexachlorobutadiene	10	U	10	0.16	ppb v/v			11/02/21 17:52	5
Hexane	4.0	U	4.0	1.2	ppb v/v			11/02/21 17:52	5
Isopropyl alcohol	25	U	25	4.9	ppb v/v			11/02/21 17:52	5
Isopropylbenzene	4.0	U	4.0	0.19	ppb v/v			11/02/21 17:52	5
Methyl tert-butyl ether	5.0	U	5.0	0.40	ppb v/v			11/02/21 17:52	5
Methylene Chloride	2.5	U	2.5	0.85	ppb v/v			11/02/21 17:52	5
m-Xylene & p-Xylene	4.0	U	4.0	0.85	ppb v/v			11/02/21 17:52	5
Naphthalene	2.5	U	2.5	0.85	ppb v/v			11/02/21 17:52	5
o-Xylene	1.0	U	1.0	0.47	ppb v/v			11/02/21 17:52	5
Styrene	1.0	U	1.0	0.16	ppb v/v			11/02/21 17:52	5
Tetrachloroethene	1.0	U	1.0	0.14	ppb v/v			11/02/21 17:52	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-4
Date Collected: 10/21/21 15:32
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	25	U *+	25	6.0	ppb v/v			11/02/21 17:52	5
Toluene	1.0	U	1.0	0.47	ppb v/v			11/02/21 17:52	5
trans-1,2-Dichloroethene	1.0	U	1.0	0.44	ppb v/v			11/02/21 17:52	5
trans-1,3-Dichloropropene	1.0	U	1.0	0.45	ppb v/v			11/02/21 17:52	5
Trichloroethene	1.0	U	1.0	0.12	ppb v/v			11/02/21 17:52	5
Trichlorofluoromethane	1.0	U	1.0	0.26	ppb v/v			11/02/21 17:52	5
Vinyl acetate	25	U *+	25	11	ppb v/v			11/02/21 17:52	5
Vinyl bromide	1.0	U	1.0	0.43	ppb v/v			11/02/21 17:52	5
Vinyl chloride	1.0	U	1.0	0.14	ppb v/v			11/02/21 17:52	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.5	U	5.5	1.1	ug/m3			11/02/21 17:52	5
1,1,2,2-Tetrachloroethane	6.9	U	6.9	1.5	ug/m3			11/02/21 17:52	5
1,1,2-Trichloro-1,2,2-trifluoroethane	7.7	U	7.7	2.1	ug/m3			11/02/21 17:52	5
1,1,2-Trichloroethane	5.5	U	5.5	0.93	ug/m3			11/02/21 17:52	5
1,1-Dichloroethane	4.0	U	4.0	0.59	ug/m3			11/02/21 17:52	5
1,1-Dichloroethene	4.0	U	4.0	0.57	ug/m3			11/02/21 17:52	5
1,2,4-Trichlorobenzene	74	U	74	7.1	ug/m3			11/02/21 17:52	5
1,2,4-Trimethylbenzene	4.9	U	4.9	1.2	ug/m3			11/02/21 17:52	5
1,2-Dibromoethane (EDB)	7.7	U	7.7	1.8	ug/m3			11/02/21 17:52	5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	7.0	U	7.0	1.9	ug/m3			11/02/21 17:52	5
1,2-Dichlorobenzene	6.0	U	6.0	2.1	ug/m3			11/02/21 17:52	5
1,2-Dichloroethane	4.0	U *+	4.0	3.0	ug/m3			11/02/21 17:52	5
1,2-Dichloropropane	4.6	U	4.6	2.0	ug/m3			11/02/21 17:52	5
1,3,5-Trimethylbenzene	4.9	U	4.9	1.1	ug/m3			11/02/21 17:52	5
1,3-Dichlorobenzene	6.0	U	6.0	2.7	ug/m3			11/02/21 17:52	5
1,4-Dichlorobenzene	6.0	U	6.0	2.9	ug/m3			11/02/21 17:52	5
1,4-Dioxane	90	U	90	31	ug/m3			11/02/21 17:52	5
2-Butanone (MEK)	**100**		15	2.5	ug/m3			11/02/21 17:52	5
4-Methyl-2-pentanone (MIBK)	10	U	10	3.9	ug/m3			11/02/21 17:52	5
Acetone	**300**		59	24	ug/m3			11/02/21 17:52	5
Benzene	3.2	U	3.2	1.2	ug/m3			11/02/21 17:52	5
Benzyl chloride	21	U	21	1.9	ug/m3			11/02/21 17:52	5
Bromodichloromethane	6.7	U	6.7	1.3	ug/m3			11/02/21 17:52	5
Bromoform	10	U	10	3.0	ug/m3			11/02/21 17:52	5
Bromomethane	3.9	U	3.9	1.0	ug/m3			11/02/21 17:52	5
Carbon disulfide	7.8	U	7.8	2.0	ug/m3			11/02/21 17:52	5
Carbon tetrachloride	6.3	U	6.3	1.0	ug/m3			11/02/21 17:52	5
Chlorobenzene	4.6	U	4.6	0.99	ug/m3			11/02/21 17:52	5
Chloroethane	11	U	11	3.3	ug/m3			11/02/21 17:52	5
Chloroform	4.9	U	4.9	1.1	ug/m3			11/02/21 17:52	5
Chloromethane	5.2	U	5.2	1.2	ug/m3			11/02/21 17:52	5
cis-1,2-Dichloroethene	4.0	U	4.0	0.65	ug/m3			11/02/21 17:52	5
cis-1,3-Dichloropropene	4.5	U	4.5	0.45	ug/m3			11/02/21 17:52	5
Cyclohexane	8.6	U	8.6	0.60	ug/m3			11/02/21 17:52	5
Dibromochloromethane	8.5	U	8.5	1.3	ug/m3			11/02/21 17:52	5
Dichlorodifluoromethane	12	U	12	2.7	ug/m3			11/02/21 17:52	5
Ethylbenzene	4.3	U	4.3	2.2	ug/m3			11/02/21 17:52	5
Hexachlorobutadiene	110	U	110	1.7	ug/m3			11/02/21 17:52	5

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SV-4
Lab Sample ID: 200-60682-4
Date Collected: 10/21/21 15:32
Matrix: Air
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	14	U	14	4.1	ug/m3			11/02/21 17:52	5
Isopropyl alcohol	61	U	61	12	ug/m3			11/02/21 17:52	5
Isopropylbenzene	20	U	20	0.91	ug/m3			11/02/21 17:52	5
Methyl tert-butyl ether	18	U	18	1.4	ug/m3			11/02/21 17:52	5
Methylene Chloride	8.7	U	8.7	3.0	ug/m3			11/02/21 17:52	5
m-Xylene & p-Xylene	17	U	17	3.7	ug/m3			11/02/21 17:52	5
Naphthalene	13	U	13	4.5	ug/m3			11/02/21 17:52	5
o-Xylene	4.3	U	4.3	2.0	ug/m3			11/02/21 17:52	5
Styrene	4.3	U	4.3	0.68	ug/m3			11/02/21 17:52	5
Tetrachloroethene	6.8	U	6.8	0.92	ug/m3			11/02/21 17:52	5
Tetrahydrofuran	74	U *+	74	18	ug/m3			11/02/21 17:52	5
Toluene	3.8	U	3.8	1.8	ug/m3			11/02/21 17:52	5
trans-1,2-Dichloroethene	4.0	U	4.0	1.7	ug/m3			11/02/21 17:52	5
trans-1,3-Dichloropropene	4.5	U	4.5	2.0	ug/m3			11/02/21 17:52	5
Trichloroethene	5.4	U	5.4	0.64	ug/m3			11/02/21 17:52	5
Trichlorofluoromethane	5.6	U	5.6	1.5	ug/m3			11/02/21 17:52	5
Vinyl acetate	88	U *+	88	37	ug/m3			11/02/21 17:52	5
Vinyl bromide	4.4	U	4.4	1.9	ug/m3			11/02/21 17:52	5
Vinyl chloride	2.6	U	2.6	0.36	ug/m3			11/02/21 17:52	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: OA-1

Date Collected: 10/21/21 18:57
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			11/02/21 18:45	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			11/02/21 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 18:45	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			11/02/21 18:45	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			11/02/21 18:45	1
1,1-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			11/02/21 18:45	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.19	ppb v/v			11/02/21 18:45	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			11/02/21 18:45	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.046	ppb v/v			11/02/21 18:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 18:45	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			11/02/21 18:45	1
1,2-Dichloroethane	0.20	U *+	0.20	0.15	ppb v/v			11/02/21 18:45	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			11/02/21 18:45	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			11/02/21 18:45	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			11/02/21 18:45	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			11/02/21 18:45	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			11/02/21 18:45	1
2-Butanone (MEK)	1.0	U	1.0	0.17	ppb v/v			11/02/21 18:45	1
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50	0.19	ppb v/v			11/02/21 18:45	1
Acetone	**12**		5.0	2.0	ppb v/v			11/02/21 18:45	1
Benzene	0.20	U	0.20	0.074	ppb v/v			11/02/21 18:45	1
Benzyl chloride	0.80	U	0.80	0.074	ppb v/v			11/02/21 18:45	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			11/02/21 18:45	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			11/02/21 18:45	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			11/02/21 18:45	1
Carbon disulfide	**1.6**		0.50	0.13	ppb v/v			11/02/21 18:45	1
Carbon tetrachloride	0.20	U	0.20	0.032	ppb v/v			11/02/21 18:45	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			11/02/21 18:45	1
Chloroethane	0.80	U	0.80	0.25	ppb v/v			11/02/21 18:45	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			11/02/21 18:45	1
Chloromethane	**0.55**		0.50	0.12	ppb v/v			11/02/21 18:45	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.033	ppb v/v			11/02/21 18:45	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			11/02/21 18:45	1
Cyclohexane	0.50	U	0.50	0.035	ppb v/v			11/02/21 18:45	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			11/02/21 18:45	1
Dichlorodifluoromethane	**0.45**	**J**	0.50	0.11	ppb v/v			11/02/21 18:45	1
Ethylbenzene	0.20	U	0.20	0.10	ppb v/v			11/02/21 18:45	1
Hexachlorobutadiene	2.0	U	2.0	0.031	ppb v/v			11/02/21 18:45	1
Hexane	0.80	U	0.80	0.23	ppb v/v			11/02/21 18:45	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			11/02/21 18:45	1
Isopropylbenzene	0.80	U	0.80	0.037	ppb v/v			11/02/21 18:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.080	ppb v/v			11/02/21 18:45	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			11/02/21 18:45	1
m-Xylene & p-Xylene	0.80	U	0.80	0.17	ppb v/v			11/02/21 18:45	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			11/02/21 18:45	1
o-Xylene	0.20	U	0.20	0.094	ppb v/v			11/02/21 18:45	1
Styrene	0.20	U	0.20	0.032	ppb v/v			11/02/21 18:45	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			11/02/21 18:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: OA-1
Date Collected: 10/21/21 18:57
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	5.0	U *+	5.0	1.2	ppb v/v			11/02/21 18:45	1
Toluene	**0.24**		0.20	0.093	ppb v/v			11/02/21 18:45	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			11/02/21 18:45	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			11/02/21 18:45	1
Trichloroethene	0.20	U	0.20	0.024	ppb v/v			11/02/21 18:45	1
Trichlorofluoromethane	0.20	U	0.20	0.052	ppb v/v			11/02/21 18:45	1
Vinyl acetate	5.0	U *+	5.0	2.1	ppb v/v			11/02/21 18:45	1
Vinyl bromide	0.20	U	0.20	0.085	ppb v/v			11/02/21 18:45	1
Vinyl chloride	0.20	U	0.20	0.028	ppb v/v			11/02/21 18:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			11/02/21 18:45	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			11/02/21 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U	1.5	0.42	ug/m3			11/02/21 18:45	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			11/02/21 18:45	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			11/02/21 18:45	1
1,1-Dichloroethene	0.79	U	0.79	0.11	ug/m3			11/02/21 18:45	1
1,2,4-Trichlorobenzene	15	U	15	1.4	ug/m3			11/02/21 18:45	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			11/02/21 18:45	1
1,2-Dibromoethane (EDB)	1.5	U	1.5	0.35	ug/m3			11/02/21 18:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	U	1.4	0.38	ug/m3			11/02/21 18:45	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			11/02/21 18:45	1
1,2-Dichloroethane	0.81	U *+	0.81	0.61	ug/m3			11/02/21 18:45	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			11/02/21 18:45	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			11/02/21 18:45	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			11/02/21 18:45	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			11/02/21 18:45	1
1,4-Dioxane	18	U	18	6.1	ug/m3			11/02/21 18:45	1
2-Butanone (MEK)	2.9	U	2.9	0.50	ug/m3			11/02/21 18:45	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.78	ug/m3			11/02/21 18:45	1
Acetone	**27**		12	4.8	ug/m3			11/02/21 18:45	1
Benzene	0.64	U	0.64	0.24	ug/m3			11/02/21 18:45	1
Benzyl chloride	4.1	U	4.1	0.38	ug/m3			11/02/21 18:45	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			11/02/21 18:45	1
Bromoform	2.1	U	2.1	0.60	ug/m3			11/02/21 18:45	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			11/02/21 18:45	1
Carbon disulfide	**4.9**		1.6	0.40	ug/m3			11/02/21 18:45	1
Carbon tetrachloride	1.3	U	1.3	0.20	ug/m3			11/02/21 18:45	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			11/02/21 18:45	1
Chloroethane	2.1	U	2.1	0.66	ug/m3			11/02/21 18:45	1
Chloroform	0.98	U	0.98	0.22	ug/m3			11/02/21 18:45	1
Chloromethane	**1.1**		1.0	0.25	ug/m3			11/02/21 18:45	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.13	ug/m3			11/02/21 18:45	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			11/02/21 18:45	1
Cyclohexane	1.7	U	1.7	0.12	ug/m3			11/02/21 18:45	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			11/02/21 18:45	1
Dichlorodifluoromethane	**2.2**	**J**	2.5	0.54	ug/m3			11/02/21 18:45	1
Ethylbenzene	0.87	U	0.87	0.43	ug/m3			11/02/21 18:45	1
Hexachlorobutadiene	21	U	21	0.33	ug/m3			11/02/21 18:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: OA-1
Lab Sample ID: 200-60682-5
Date Collected: 10/21/21 18:57
Matrix: Air
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	2.8	U	2.8	0.81	ug/m3			11/02/21 18:45	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			11/02/21 18:45	1
Isopropylbenzene	3.9	U	3.9	0.18	ug/m3			11/02/21 18:45	1
Methyl tert-butyl ether	3.6	U	3.6	0.29	ug/m3			11/02/21 18:45	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			11/02/21 18:45	1
m-Xylene & p-Xylene	3.5	U	3.5	0.74	ug/m3			11/02/21 18:45	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			11/02/21 18:45	1
o-Xylene	0.87	U	0.87	0.41	ug/m3			11/02/21 18:45	1
Styrene	0.85	U	0.85	0.14	ug/m3			11/02/21 18:45	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			11/02/21 18:45	1
Tetrahydrofuran	15	U *+	15	3.5	ug/m3			11/02/21 18:45	1
Toluene	**0.92**		0.75	0.35	ug/m3			11/02/21 18:45	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			11/02/21 18:45	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			11/02/21 18:45	1
Trichloroethene	1.1	U	1.1	0.13	ug/m3			11/02/21 18:45	1
Trichlorofluoromethane	1.1	U	1.1	0.29	ug/m3			11/02/21 18:45	1
Vinyl acetate	18	U *+	18	7.4	ug/m3			11/02/21 18:45	1
Vinyl bromide	0.87	U	0.87	0.37	ug/m3			11/02/21 18:45	1
Vinyl chloride	0.51	U	0.51	0.072	ug/m3			11/02/21 18:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: BLIND DUP

Date Collected: 10/21/21 19:00
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			11/02/21 19:37	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			11/02/21 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 19:37	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			11/02/21 19:37	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			11/02/21 19:37	1
1,1-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			11/02/21 19:37	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.19	ppb v/v			11/02/21 19:37	1
1,2,4-Trimethylbenzene	**0.18**	**J**	0.20	0.047	ppb v/v			11/02/21 19:37	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.046	ppb v/v			11/02/21 19:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 19:37	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			11/02/21 19:37	1
1,2-Dichloroethane	0.20	U *+	0.20	0.15	ppb v/v			11/02/21 19:37	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			11/02/21 19:37	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			11/02/21 19:37	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			11/02/21 19:37	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			11/02/21 19:37	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			11/02/21 19:37	1
2-Butanone (MEK)	**1.5**		1.0	0.17	ppb v/v			11/02/21 19:37	1
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50	0.19	ppb v/v			11/02/21 19:37	1
Acetone	**25**		5.0	2.0	ppb v/v			11/02/21 19:37	1
Benzene	**0.30**		0.20	0.074	ppb v/v			11/02/21 19:37	1
Benzyl chloride	0.80	U	0.80	0.074	ppb v/v			11/02/21 19:37	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			11/02/21 19:37	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			11/02/21 19:37	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			11/02/21 19:37	1
Carbon disulfide	**0.54**		0.50	0.13	ppb v/v			11/02/21 19:37	1
Carbon tetrachloride	**0.12**	**J**	0.20	0.032	ppb v/v			11/02/21 19:37	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			11/02/21 19:37	1
Chloroethane	0.80	U	0.80	0.25	ppb v/v			11/02/21 19:37	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			11/02/21 19:37	1
Chloromethane	**0.87**		0.50	0.12	ppb v/v			11/02/21 19:37	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.033	ppb v/v			11/02/21 19:37	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			11/02/21 19:37	1
Cyclohexane	0.50	U	0.50	0.035	ppb v/v			11/02/21 19:37	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			11/02/21 19:37	1
Dichlorodifluoromethane	**0.57**		0.50	0.11	ppb v/v			11/02/21 19:37	1
Ethylbenzene	0.20	U	0.20	0.10	ppb v/v			11/02/21 19:37	1
Hexachlorobutadiene	2.0	U	2.0	0.031	ppb v/v			11/02/21 19:37	1
Hexane	0.80	U	0.80	0.23	ppb v/v			11/02/21 19:37	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			11/02/21 19:37	1
Isopropylbenzene	0.80	U	0.80	0.037	ppb v/v			11/02/21 19:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.080	ppb v/v			11/02/21 19:37	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			11/02/21 19:37	1
m-Xylene & p-Xylene	**0.24**	**J**	0.80	0.17	ppb v/v			11/02/21 19:37	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			11/02/21 19:37	1
o-Xylene	**0.29**		0.20	0.094	ppb v/v			11/02/21 19:37	1
Styrene	0.20	U	0.20	0.032	ppb v/v			11/02/21 19:37	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			11/02/21 19:37	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: BLIND DUP
Date Collected: 10/21/21 19:00
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-60682-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	5.0	U *+	5.0	1.2	ppb v/v			11/02/21 19:37	1
Toluene	**0.37**		0.20	0.093	ppb v/v			11/02/21 19:37	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			11/02/21 19:37	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			11/02/21 19:37	1
Trichloroethene	0.20	U	0.20	0.024	ppb v/v			11/02/21 19:37	1
Trichlorofluoromethane	**0.22**		0.20	0.052	ppb v/v			11/02/21 19:37	1
Vinyl acetate	5.0	U *+	5.0	2.1	ppb v/v			11/02/21 19:37	1
Vinyl bromide	0.20	U	0.20	0.085	ppb v/v			11/02/21 19:37	1
Vinyl chloride	0.20	U	0.20	0.028	ppb v/v			11/02/21 19:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			11/02/21 19:37	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			11/02/21 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U	1.5	0.42	ug/m3			11/02/21 19:37	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			11/02/21 19:37	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			11/02/21 19:37	1
1,1-Dichloroethene	0.79	U	0.79	0.11	ug/m3			11/02/21 19:37	1
1,2,4-Trichlorobenzene	15	U	15	1.4	ug/m3			11/02/21 19:37	1
1,2,4-Trimethylbenzene	**0.89**	**J**	0.98	0.23	ug/m3			11/02/21 19:37	1
1,2-Dibromoethane (EDB)	1.5	U	1.5	0.35	ug/m3			11/02/21 19:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	U	1.4	0.38	ug/m3			11/02/21 19:37	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			11/02/21 19:37	1
1,2-Dichloroethane	0.81	U *+	0.81	0.61	ug/m3			11/02/21 19:37	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			11/02/21 19:37	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			11/02/21 19:37	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			11/02/21 19:37	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			11/02/21 19:37	1
1,4-Dioxane	18	U	18	6.1	ug/m3			11/02/21 19:37	1
2-Butanone (MEK)	**4.4**		2.9	0.50	ug/m3			11/02/21 19:37	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.78	ug/m3			11/02/21 19:37	1
Acetone	**58**		12	4.8	ug/m3			11/02/21 19:37	1
Benzene	**0.96**		0.64	0.24	ug/m3			11/02/21 19:37	1
Benzyl chloride	4.1	U	4.1	0.38	ug/m3			11/02/21 19:37	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			11/02/21 19:37	1
Bromoform	2.1	U	2.1	0.60	ug/m3			11/02/21 19:37	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			11/02/21 19:37	1
Carbon disulfide	**1.7**		1.6	0.40	ug/m3			11/02/21 19:37	1
Carbon tetrachloride	**0.73**	**J**	1.3	0.20	ug/m3			11/02/21 19:37	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			11/02/21 19:37	1
Chloroethane	2.1	U	2.1	0.66	ug/m3			11/02/21 19:37	1
Chloroform	0.98	U	0.98	0.22	ug/m3			11/02/21 19:37	1
Chloromethane	**1.8**		1.0	0.25	ug/m3			11/02/21 19:37	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.13	ug/m3			11/02/21 19:37	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			11/02/21 19:37	1
Cyclohexane	1.7	U	1.7	0.12	ug/m3			11/02/21 19:37	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			11/02/21 19:37	1
Dichlorodifluoromethane	**2.8**		2.5	0.54	ug/m3			11/02/21 19:37	1
Ethylbenzene	0.87	U	0.87	0.43	ug/m3			11/02/21 19:37	1
Hexachlorobutadiene	21	U	21	0.33	ug/m3			11/02/21 19:37	1

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: BLIND DUP
Lab Sample ID: 200-60682-6
Date Collected: 10/21/21 19:00
Matrix: Air
Date Received: 10/23/21 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	2.8	U	2.8	0.81	ug/m3			11/02/21 19:37	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			11/02/21 19:37	1
Isopropylbenzene	3.9	U	3.9	0.18	ug/m3			11/02/21 19:37	1
Methyl tert-butyl ether	3.6	U	3.6	0.29	ug/m3			11/02/21 19:37	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			11/02/21 19:37	1
m-Xylene & p-Xylene	**1.0**	**J**	3.5	0.74	ug/m3			11/02/21 19:37	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			11/02/21 19:37	1
o-Xylene	**1.3**		0.87	0.41	ug/m3			11/02/21 19:37	1
Styrene	0.85	U	0.85	0.14	ug/m3			11/02/21 19:37	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			11/02/21 19:37	1
Tetrahydrofuran	15	U *+	15	3.5	ug/m3			11/02/21 19:37	1
Toluene	**1.4**		0.75	0.35	ug/m3			11/02/21 19:37	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			11/02/21 19:37	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			11/02/21 19:37	1
Trichloroethene	1.1	U	1.1	0.13	ug/m3			11/02/21 19:37	1
Trichlorofluoromethane	**1.2**		1.1	0.29	ug/m3			11/02/21 19:37	1
Vinyl acetate	18	U *+	18	7.4	ug/m3			11/02/21 19:37	1
Vinyl bromide	0.87	U	0.87	0.37	ug/m3			11/02/21 19:37	1
Vinyl chloride	0.51	U	0.51	0.072	ug/m3			11/02/21 19:37	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-173380/5
Matrix: Air
Analysis Batch: 173380

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			11/02/21 10:51	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			11/02/21 10:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 10:51	1
1,1,2-Trichloroethane	0.20	U	0.20	0.034	ppb v/v			11/02/21 10:51	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			11/02/21 10:51	1
1,1-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			11/02/21 10:51	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.19	ppb v/v			11/02/21 10:51	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			11/02/21 10:51	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.046	ppb v/v			11/02/21 10:51	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	U	0.20	0.055	ppb v/v			11/02/21 10:51	1
1,2-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			11/02/21 10:51	1
1,2-Dichloroethane	0.20	U	0.20	0.15	ppb v/v			11/02/21 10:51	1
1,2-Dichloropropane	0.20	U	0.20	0.087	ppb v/v			11/02/21 10:51	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.044	ppb v/v			11/02/21 10:51	1
1,3-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			11/02/21 10:51	1
1,4-Dichlorobenzene	0.20	U	0.20	0.095	ppb v/v			11/02/21 10:51	1
1,4-Dioxane	5.0	U	5.0	1.7	ppb v/v			11/02/21 10:51	1
2-Butanone (MEK)	1.0	U	1.0	0.17	ppb v/v			11/02/21 10:51	1
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50	0.19	ppb v/v			11/02/21 10:51	1
Acetone	5.0	U	5.0	2.0	ppb v/v			11/02/21 10:51	1
Benzene	0.20	U	0.20	0.074	ppb v/v			11/02/21 10:51	1
Benzyl chloride	0.80	U	0.80	0.074	ppb v/v			11/02/21 10:51	1
Bromodichloromethane	0.20	U	0.20	0.040	ppb v/v			11/02/21 10:51	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			11/02/21 10:51	1
Bromomethane	0.20	U	0.20	0.052	ppb v/v			11/02/21 10:51	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			11/02/21 10:51	1
Carbon tetrachloride	0.20	U	0.20	0.032	ppb v/v			11/02/21 10:51	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			11/02/21 10:51	1
Chloroethane	0.80	U	0.80	0.25	ppb v/v			11/02/21 10:51	1
Chloroform	0.20	U	0.20	0.046	ppb v/v			11/02/21 10:51	1
Chloromethane	0.50	U	0.50	0.12	ppb v/v			11/02/21 10:51	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.033	ppb v/v			11/02/21 10:51	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.020	ppb v/v			11/02/21 10:51	1
Cyclohexane	0.50	U	0.50	0.035	ppb v/v			11/02/21 10:51	1
Dibromochloromethane	0.20	U	0.20	0.031	ppb v/v			11/02/21 10:51	1
Dichlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			11/02/21 10:51	1
Ethylbenzene	0.20	U	0.20	0.10	ppb v/v			11/02/21 10:51	1
Hexachlorobutadiene	2.0	U	2.0	0.031	ppb v/v			11/02/21 10:51	1
Hexane	0.80	U	0.80	0.23	ppb v/v			11/02/21 10:51	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			11/02/21 10:51	1
Isopropylbenzene	0.80	U	0.80	0.037	ppb v/v			11/02/21 10:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.080	ppb v/v			11/02/21 10:51	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			11/02/21 10:51	1
m-Xylene & p-Xylene	0.80	U	0.80	0.17	ppb v/v			11/02/21 10:51	1
Naphthalene	0.50	U	0.50	0.17	ppb v/v			11/02/21 10:51	1
o-Xylene	0.20	U	0.20	0.094	ppb v/v			11/02/21 10:51	1
Styrene	0.20	U	0.20	0.032	ppb v/v			11/02/21 10:51	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			11/02/21 10:51	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-173380/5
Matrix: Air
Analysis Batch: 173380

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			11/02/21 10:51	1
Toluene	0.20	U	0.20	0.093	ppb v/v			11/02/21 10:51	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			11/02/21 10:51	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.089	ppb v/v			11/02/21 10:51	1
Trichloroethene	0.20	U	0.20	0.024	ppb v/v			11/02/21 10:51	1
Trichlorofluoromethane	0.20	U	0.20	0.052	ppb v/v			11/02/21 10:51	1
Vinyl acetate	5.0	U	5.0	2.1	ppb v/v			11/02/21 10:51	1
Vinyl bromide	0.20	U	0.20	0.085	ppb v/v			11/02/21 10:51	1
Vinyl chloride	0.20	U	0.20	0.028	ppb v/v			11/02/21 10:51	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			11/02/21 10:51	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			11/02/21 10:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U	1.5	0.42	ug/m3			11/02/21 10:51	1
1,1,2-Trichloroethane	1.1	U	1.1	0.19	ug/m3			11/02/21 10:51	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			11/02/21 10:51	1
1,1-Dichloroethene	0.79	U	0.79	0.11	ug/m3			11/02/21 10:51	1
1,2,4-Trichlorobenzene	15	U	15	1.4	ug/m3			11/02/21 10:51	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			11/02/21 10:51	1
1,2-Dibromoethane (EDB)	1.5	U	1.5	0.35	ug/m3			11/02/21 10:51	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	U	1.4	0.38	ug/m3			11/02/21 10:51	1
1,2-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			11/02/21 10:51	1
1,2-Dichloroethane	0.81	U	0.81	0.61	ug/m3			11/02/21 10:51	1
1,2-Dichloropropane	0.92	U	0.92	0.40	ug/m3			11/02/21 10:51	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.22	ug/m3			11/02/21 10:51	1
1,3-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			11/02/21 10:51	1
1,4-Dichlorobenzene	1.2	U	1.2	0.57	ug/m3			11/02/21 10:51	1
1,4-Dioxane	18	U	18	6.1	ug/m3			11/02/21 10:51	1
2-Butanone (MEK)	2.9	U	2.9	0.50	ug/m3			11/02/21 10:51	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.78	ug/m3			11/02/21 10:51	1
Acetone	12	U	12	4.8	ug/m3			11/02/21 10:51	1
Benzene	0.64	U	0.64	0.24	ug/m3			11/02/21 10:51	1
Benzyl chloride	4.1	U	4.1	0.38	ug/m3			11/02/21 10:51	1
Bromodichloromethane	1.3	U	1.3	0.27	ug/m3			11/02/21 10:51	1
Bromoform	2.1	U	2.1	0.60	ug/m3			11/02/21 10:51	1
Bromomethane	0.78	U	0.78	0.20	ug/m3			11/02/21 10:51	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			11/02/21 10:51	1
Carbon tetrachloride	1.3	U	1.3	0.20	ug/m3			11/02/21 10:51	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			11/02/21 10:51	1
Chloroethane	2.1	U	2.1	0.66	ug/m3			11/02/21 10:51	1
Chloroform	0.98	U	0.98	0.22	ug/m3			11/02/21 10:51	1
Chloromethane	1.0	U	1.0	0.25	ug/m3			11/02/21 10:51	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.13	ug/m3			11/02/21 10:51	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.091	ug/m3			11/02/21 10:51	1
Cyclohexane	1.7	U	1.7	0.12	ug/m3			11/02/21 10:51	1
Dibromochloromethane	1.7	U	1.7	0.26	ug/m3			11/02/21 10:51	1
Dichlorodifluoromethane	2.5	U	2.5	0.54	ug/m3			11/02/21 10:51	1
Ethylbenzene	0.87	U	0.87	0.43	ug/m3			11/02/21 10:51	1
Hexachlorobutadiene	21	U	21	0.33	ug/m3			11/02/21 10:51	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-173380/5
Matrix: Air
Analysis Batch: 173380

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	2.8	U	2.8	0.81	ug/m3			11/02/21 10:51	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			11/02/21 10:51	1
Isopropylbenzene	3.9	U	3.9	0.18	ug/m3			11/02/21 10:51	1
Methyl tert-butyl ether	3.6	U	3.6	0.29	ug/m3			11/02/21 10:51	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			11/02/21 10:51	1
m-Xylene & p-Xylene	3.5	U	3.5	0.74	ug/m3			11/02/21 10:51	1
Naphthalene	2.6	U	2.6	0.89	ug/m3			11/02/21 10:51	1
o-Xylene	0.87	U	0.87	0.41	ug/m3			11/02/21 10:51	1
Styrene	0.85	U	0.85	0.14	ug/m3			11/02/21 10:51	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			11/02/21 10:51	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			11/02/21 10:51	1
Toluene	0.75	U	0.75	0.35	ug/m3			11/02/21 10:51	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			11/02/21 10:51	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.40	ug/m3			11/02/21 10:51	1
Trichloroethene	1.1	U	1.1	0.13	ug/m3			11/02/21 10:51	1
Trichlorofluoromethane	1.1	U	1.1	0.29	ug/m3			11/02/21 10:51	1
Vinyl acetate	18	U	18	7.4	ug/m3			11/02/21 10:51	1
Vinyl bromide	0.87	U	0.87	0.37	ug/m3			11/02/21 10:51	1
Vinyl chloride	0.51	U	0.51	0.072	ug/m3			11/02/21 10:51	1

Lab Sample ID: LCS 200-173380/6
Matrix: Air
Analysis Batch: 173380

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.3	12.3		ppb v/v		119	72 - 127
1,1,2,2-Tetrachloroethane	10.3	9.68		ppb v/v		93	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	10.7	9.79		ppb v/v		92	70 - 121
1,1,2-Trichloroethane	10.5	9.70		ppb v/v		92	75 - 126
1,1-Dichloroethane	10.3	10.8		ppb v/v		105	66 - 130
1,1-Dichloroethene	10.2	8.57		ppb v/v		84	68 - 120
1,2,4-Trichlorobenzene	11.0	9.87		ppb v/v		90	50 - 150
1,2,4-Trimethylbenzene	10.4	10.7		ppb v/v		102	71 - 129
1,2-Dibromoethane (EDB)	10.7	11.4		ppb v/v		107	78 - 122
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.6	11.9		ppb v/v		112	71 - 141
1,2-Dichlorobenzene	10.8	9.81		ppb v/v		91	68 - 129
1,2-Dichloroethane	10.5	15.2	*+	ppb v/v		146	68 - 135
1,2-Dichloropropane	10.3	10.4		ppb v/v		100	69 - 128
1,3,5-Trimethylbenzene	10.5	10.1		ppb v/v		96	72 - 126
1,3-Dichlorobenzene	10.2	10.1		ppb v/v		99	69 - 131
1,4-Dichlorobenzene	10.4	9.69		ppb v/v		93	67 - 132
1,4-Dioxane	10.3	9.76		ppb v/v		95	66 - 129
2-Butanone (MEK)	10.4	10.7		ppb v/v		104	72 - 124
4-Methyl-2-pentanone (MIBK)	10.2	12.3		ppb v/v		121	58 - 144
Acetone	10.4	15.6		ppb v/v		150	54 - 154
Benzene	10.4	10.6		ppb v/v		102	73 - 119
Benzyl chloride	10.2	10.4		ppb v/v		102	60 - 136

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-173380/6
Matrix: Air
Analysis Batch: 173380

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	10.3	11.1		ppb v/v		108	75 - 127
Bromoform	10.3	9.80		ppb v/v		95	53 - 149
Bromomethane	10.4	9.30		ppb v/v		89	72 - 124
Carbon disulfide	10.4	9.72		ppb v/v		94	71 - 138
Carbon tetrachloride	10.0	12.8		ppb v/v		128	71 - 133
Chlorobenzene	10.5	10.1		ppb v/v		96	76 - 119
Chloroethane	10.6	11.1		ppb v/v		105	68 - 130
Chloroform	10.3	10.6		ppb v/v		102	73 - 124
Chloromethane	9.94	12.4		ppb v/v		125	56 - 141
cis-1,2-Dichloroethene	10.4	11.4		ppb v/v		109	72 - 121
cis-1,3-Dichloropropene	9.94	10.3		ppb v/v		104	74 - 125
Cyclohexane	10.2	10.1		ppb v/v		99	76 - 124
Dibromochloromethane	10.6	10.8		ppb v/v		102	73 - 125
Dichlorodifluoromethane	10.6	11.3		ppb v/v		106	61 - 142
Ethylbenzene	10.2	9.54		ppb v/v		93	74 - 122
Hexachlorobutadiene	10.8	9.94		ppb v/v		92	58 - 130
Hexane	10.5	10.3		ppb v/v		98	63 - 138
Isopropyl alcohol	10.2	11.2		ppb v/v		110	53 - 142
Isopropylbenzene	10.5	10.6		ppb v/v		101	73 - 123
Methyl tert-butyl ether	10.6	12.3		ppb v/v		116	70 - 127
Methylene Chloride	10.2	11.8		ppb v/v		115	59 - 137
m-Xylene & p-Xylene	20.0	19.6		ppb v/v		98	76 - 121
Naphthalene	10.5	8.58		ppb v/v		82	50 - 150
o-Xylene	10.4	9.20		ppb v/v		89	73 - 123
Styrene	10.3	9.60		ppb v/v		93	74 - 125
Tetrachloroethene	10.5	9.79		ppb v/v		94	70 - 125
Tetrahydrofuran	9.81	17.1	*+	ppb v/v		175	60 - 149
Toluene	10.2	9.73		ppb v/v		95	75 - 122
trans-1,2-Dichloroethene	10.3	10.3		ppb v/v		99	69 - 137
trans-1,3-Dichloropropene	9.85	11.0		ppb v/v		112	74 - 128
Trichloroethene	10.3	10.3		ppb v/v		100	73 - 122
Trichlorofluoromethane	10.4	10.8		ppb v/v		104	70 - 129
Vinyl acetate	10.1	15.3	*+	ppb v/v		152	59 - 149
Vinyl bromide	10.0	9.69		ppb v/v		96	75 - 125
Vinyl chloride	9.99	11.0		ppb v/v		110	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	56	67.1		ug/m3		119	72 - 127
1,1,2,2-Tetrachloroethane	71	66.4		ug/m3		93	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	82	75.1		ug/m3		92	70 - 121
1,1,2-Trichloroethane	57	52.9		ug/m3		92	75 - 126
1,1-Dichloroethane	42	43.8		ug/m3		105	66 - 130
1,1-Dichloroethene	40	34.0		ug/m3		84	68 - 120
1,2,4-Trichlorobenzene	81	73.2		ug/m3		90	50 - 150
1,2,4-Trimethylbenzene	51	52.5		ug/m3		102	71 - 129
1,2-Dibromoethane (EDB)	82	87.4		ug/m3		107	78 - 122
1,2-Dichloro-1,1,2,2-tetrafluoroethane	74	83.2		ug/m3		112	71 - 141

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-173380/6
Matrix: Air
Analysis Batch: 173380

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	65	59.0		ug/m3		91	68 - 129
1,2-Dichloroethane	42	61.7	*+	ug/m3		146	68 - 135
1,2-Dichloropropane	48	48.0		ug/m3		100	69 - 128
1,3,5-Trimethylbenzene	52	49.7		ug/m3		96	72 - 126
1,3-Dichlorobenzene	61	60.5		ug/m3		99	69 - 131
1,4-Dichlorobenzene	63	58.2		ug/m3		93	67 - 132
1,4-Dioxane	37	35.2		ug/m3		95	66 - 129
2-Butanone (MEK)	31	31.6		ug/m3		104	72 - 124
4-Methyl-2-pentanone (MIBK)	42	50.5		ug/m3		121	58 - 144
Acetone	25	37.1		ug/m3		150	54 - 154
Benzene	33	34.0		ug/m3		102	73 - 119
Benzyl chloride	53	53.7		ug/m3		102	60 - 136
Bromodichloromethane	69	74.6		ug/m3		108	75 - 127
Bromoform	110	101		ug/m3		95	53 - 149
Bromomethane	40	36.1		ug/m3		89	72 - 124
Carbon disulfide	32	30.3		ug/m3		94	71 - 138
Carbon tetrachloride	63	80.6		ug/m3		128	71 - 133
Chlorobenzene	48	46.4		ug/m3		96	76 - 119
Chloroethane	28	29.2		ug/m3		105	68 - 130
Chloroform	50	51.6		ug/m3		102	73 - 124
Chloromethane	21	25.6		ug/m3		125	56 - 141
cis-1,2-Dichloroethene	41	45.0		ug/m3		109	72 - 121
cis-1,3-Dichloropropene	45	47.0		ug/m3		104	74 - 125
Cyclohexane	35	34.9		ug/m3		99	76 - 124
Dibromochloromethane	90	92.1		ug/m3		102	73 - 125
Dichlorodifluoromethane	52	55.6		ug/m3		106	61 - 142
Ethylbenzene	44	41.4		ug/m3		93	74 - 122
Hexachlorobutadiene	120	106		ug/m3		92	58 - 130
Hexane	37	36.2		ug/m3		98	63 - 138
Isopropyl alcohol	25	27.6		ug/m3		110	53 - 142
Isopropylbenzene	51	52.2		ug/m3		101	73 - 123
Methyl tert-butyl ether	38	44.3		ug/m3		116	70 - 127
Methylene Chloride	36	41.0		ug/m3		115	59 - 137
m-Xylene & p-Xylene	87	85.1		ug/m3		98	76 - 121
Naphthalene	55	45.0		ug/m3		82	50 - 150
o-Xylene	45	40.0		ug/m3		89	73 - 123
Styrene	44	40.9		ug/m3		93	74 - 125
Tetrachloroethene	71	66.4		ug/m3		94	70 - 125
Tetrahydrofuran	29	50.5	*+	ug/m3		175	60 - 149
Toluene	38	36.7		ug/m3		95	75 - 122
trans-1,2-Dichloroethene	41	40.7		ug/m3		99	69 - 137
trans-1,3-Dichloropropene	45	49.9		ug/m3		112	74 - 128
Trichloroethene	55	55.4		ug/m3		100	73 - 122
Trichlorofluoromethane	58	60.6		ug/m3		104	70 - 129
Vinyl acetate	35	53.9	*+	ug/m3		152	59 - 149
Vinyl bromide	44	42.4		ug/m3		96	75 - 125
Vinyl chloride	26	28.1		ug/m3		110	61 - 135

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Air - GC/MS VOA

Analysis Batch: 173380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-60682-1	SV-1	Total/NA	Air	TO-15	
200-60682-2	SV-2	Total/NA	Air	TO-15	
200-60682-3	SV-3	Total/NA	Air	TO-15	
200-60682-4	SV-4	Total/NA	Air	TO-15	
200-60682-5	OA-1	Total/NA	Air	TO-15	
200-60682-6	BLIND DUP	Total/NA	Air	TO-15	
MB 200-173380/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-173380/6	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Client Sample ID: SV-1
Date Collected: 10/21/21 15:33
Date Received: 10/23/21 10:00

Lab Sample ID: 200-60682-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	173380	11/02/21 15:14	K1P	TAL BUR

Client Sample ID: SV-2
Date Collected: 10/21/21 18:55
Date Received: 10/23/21 10:00

Lab Sample ID: 200-60682-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	173380	11/02/21 16:07	K1P	TAL BUR

Client Sample ID: SV-3
Date Collected: 10/21/21 15:31
Date Received: 10/23/21 10:00

Lab Sample ID: 200-60682-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5	173380	11/02/21 17:00	K1P	TAL BUR

Client Sample ID: SV-4
Date Collected: 10/21/21 15:32
Date Received: 10/23/21 10:00

Lab Sample ID: 200-60682-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5	173380	11/02/21 17:52	K1P	TAL BUR

Client Sample ID: OA-1
Date Collected: 10/21/21 18:57
Date Received: 10/23/21 10:00

Lab Sample ID: 200-60682-5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	173380	11/02/21 18:45	K1P	TAL BUR

Client Sample ID: BLIND DUP
Date Collected: 10/21/21 19:00
Date Received: 10/23/21 10:00

Lab Sample ID: 200-60682-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	173380	11/02/21 19:37	K1P	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 200-60682-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-60682-1	SV-1	Air	10/21/21 15:33	10/23/21 10:00	Air Canister (6-Liter) #3219
200-60682-2	SV-2	Air	10/21/21 18:55	10/23/21 10:00	Air Canister (6-Liter) #5967
200-60682-3	SV-3	Air	10/21/21 15:31	10/23/21 10:00	Air Canister (6-Liter) #3707
200-60682-4	SV-4	Air	10/21/21 15:32	10/23/21 10:00	Air Canister (6-Liter) #6020
200-60682-5	OA-1	Air	10/21/21 18:57	10/23/21 10:00	Air Canister (6-Liter) #34000294
200-60682-6	BLIND DUP	Air	10/21/21 19:00	10/23/21 10:00	Air Canister (6-Liter) #34000148

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** BRYAN MAYBACK	**Samples Collected By:** CHAD SCHUSTER
Company Name: TURNKEY ENV. REST.	Phone: 716-856-0599	
Address: 2558 HAMBURG TRPK	Email: bmayback@bm-tk.com	
City/State/Zip BUFFALO, NY 14218		
Phone: 716-856-0599	Site Contact: CHAD SCHUSTER	
FAX:	Tel/Fax 716-856-0599	
Project Name: 3077 UNION RD SITE	**Analysis Turnaround Time**	
Site/Location: 3077 UNION RD.	Standard (Specific): X	
PO# 0105-017-010	Rush (Specifiy):	

COC No: 1 of 1 COCs
TALS Project #:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:
(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level) 5	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	~~Sample Type~~	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SV-1	10/21/21	1102	10/21/21	1533	-27	-0.5	3787	3219	X														LOW VACUUM FOR ALL
SV-2		1108		1855	-30		5200	5967	X														
SV-3		1105		1531	-29.5	-2.5	5244	3707	X														
SV-4		1101		~~1539~~ 1534	-29	-1.5	6554	6020	X														
OA-1		1109		1857	-28.5		4519	34000294	X														
BLIND DUP		1200		1900	-28	-0.5	6549	34000148	X														

200-60682 COC

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			61
Stop			62

Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:
CAT B

Samples Shipped by:	**Date / Time:**	**Samples Received by:** Carole Cinq 10/22/21 1000 ETA-Burl
Samples Relinquished by: Chad M Schust	**Date / Time:** 10/22/21 800	**Received by:**
Relinquished by:	**Date / Time:**	**Received by:**
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**

Form No. CA-C-WI-003, Rev. 2.27, dated 12/15/2020



RIGIN ID:DKKA (716) 691-2600
MPLE RECEIPT
UROFINS TESTAMERICA BUFFALO
HAZELWOOD DR

HERST, NY 14228
ITED STATES US

SHIP DATE: 220CT21
ACTWGT: 34.45 LB
CAD: 846654/CAFE3507

BILL RECIPIENT

SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
2) 923-1026
EF: TA SOUTH BURLINGTON AIR

FedEx Express

2 of 2
1888 3865 5672
r# 1888 3865 5661

SATURDAY 12:00P
PRIORITY OVERNIGHT

0201

0 BTVA

05403
VT-US BTV

eurofins | Environment Testing TestAmerica

Part # 159414.1 REF EXP 04/22

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 220CT21
ACTWGT: 16.45 LB
CAD: 846654/CAFE3507

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH BURLINGTON AIR

570C3/1498/2F4D

FedEx Express

J211020121101uv

1 of 2
TRK# 1888 3865 5661
0201
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 200-60682-1

Login Number: 60682
List Number: 1
Creator: Cunningham, Caroline R

List Source: Eurofins TestAmerica, Burlington

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

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	10	50	8/6/2021	1434	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	6150	106	106	0	29.1	G26	8/5/21	1406	C	22.0	G26	8/31/21	1345	C	22.0
2	3283	103	103	0	29.7	G26	8/31/21	1426	C	22.0	G26	9/3/21	1200	C	22.0
3	4911	106	106	0	29.1	G26	8/5/21	1406	C	22.0	G26	8/31/21	1345	C	22.0
4	5439		106	0		G26					G26				
5	5967		106	0		G26					G26				
6	3459					G26					G26			C	8/7/21
7	34000294		106	0		G26					G26				
8	4136		106	0		G26					G26				
9	3707		106	0		G26					G26				
10	3219		106	0		G26					G26				
11	6020		106	0		G26					G26				
12	34000148		109	103		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
3283	8/12/21	47119	KPI		XXXXXXX				8/12/21	JPB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-59576-A-2
3283
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 8/6/2021 12:00 AM
200-1522707
Loc: 200
59576
#2 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-59576-1

SDG No.:

Client Sample ID: 3283 Lab Sample ID: 200-59576-2

Matrix: Air Lab File ID: 47119-08.D

Analysis Method: TO-15 Date Collected: 08/06/2021 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/11/2021 13:59

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 170058 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-59576-1

SDG No.:

Client Sample ID: 3283 Lab Sample ID: 200-59576-2

Matrix: Air Lab File ID: 47119-08.D

Analysis Method: TO-15 Date Collected: 08/06/2021 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/11/2021 13:59

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 170058 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-59576-1

SDG No.:

Client Sample ID: 3283 Lab Sample ID: 200-59576-2

Matrix: Air Lab File ID: 47119-08.D

Analysis Method: TO-15 Date Collected: 08/06/2021 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/11/2021 13:59

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 170058 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210811-47119.b\47119-08.D
Lims ID: 200-59576-A-2
Client ID: 3283
Sample Type: Client
Inject. Date: 11-Aug-2021 13:59:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0047119-008
Misc. Info.: 59576-2
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20210811-47119.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 12-Aug-2021 07:58:56 Calib Date: 03-Aug-2021 02:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20210802-47009.b\47009-15.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: puangmaleek Date: 12-Aug-2021 07:58:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.822				ND	
2 Dichlorodifluoromethane	85		2.886				ND	
3 Chlorodifluoromethane	51		2.924				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.126				ND	
5 Chloromethane	50		3.233				ND	
6 Butane	43		3.425				ND	
7 Vinyl chloride	62		3.452				ND	
8 Butadiene	54		3.521				ND	
10 Bromomethane	94		4.119				ND	
11 Chloroethane	64		4.343				ND	
13 Vinyl bromide	106		4.711				ND	
14 Trichlorofluoromethane	101		4.829				ND	
17 Ethanol	45		5.421				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.875				ND	
21 1,1-Dichloroethene	96		5.886				ND	
22 Acetone	43		6.120				ND	7
23 Carbon disulfide	76	6.259	6.250	0.005	37	682	0.0393	
24 Isopropyl alcohol	45		6.494				ND	
25 3-Chloro-1-propene	41		6.643				ND	
27 Methylene Chloride	49		6.916				ND	
28 2-Methyl-2-propanol	59		7.262				ND	
31 trans-1,2-Dichloroethene	61		7.380				ND	
29 Methyl tert-butyl ether	73		7.401				ND	
33 Hexane	57		7.812				ND	
34 1,1-Dichloroethane	63		8.207				ND	
35 Vinyl acetate	43		8.319				ND	
37 cis-1,2-Dichloroethene	96		9.296				ND	
38 2-Butanone (MEK)	72		9.355				ND	
39 Ethyl acetate	88		9.445				ND	
* 40 Chlorobromomethane	128	9.734	9.739	-0.005	91	115780	20.0	
41 Tetrahydrofuran	42		9.813				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	42 Chloroform	83		9.894				ND	
	44 1,1,1-Trichloroethane	97		10.166				ND	
	43 Cyclohexane	84		10.171				ND	
S	30 1,2-Dichloroethene, Total	61		10.200				ND	7
	45 Carbon tetrachloride	117		10.433				ND	
	47 Benzene	78		10.860				ND	
	46 Isooctane	57		10.913				ND	
	48 1,2-Dichloroethane	62		11.009				ND	
	49 n-Heptane	43		11.318				ND	
*	50 1,4-Difluorobenzene	114	11.703	11.703	0.000	96	762076	20.0	
	53 Trichloroethene	95		12.178				ND	
	54 1,2-Dichloropropane	63		12.679				ND	
	55 Methyl methacrylate	69		12.920				ND	
	57 Dibromomethane	174		12.925				ND	
	56 1,4-Dioxane	88		12.968				ND	
	58 Dichlorobromomethane	83		13.250				ND	
	60 cis-1,3-Dichloropropene	75		14.211				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		14.542				ND	
	65 Toluene	92		14.825				ND	
	66 trans-1,3-Dichloropropene	75		15.417				ND	
	67 1,1,2-Trichloroethane	83		15.780				ND	
	68 Tetrachloroethene	166		15.951				ND	
	69 2-Hexanone	43		16.287				ND	
	71 Chlorodibromomethane	129		16.549				ND	
	72 Ethylene Dibromide	107		16.800				ND	
*	74 Chlorobenzene-d5	117	17.734	17.733	0.001	94	922869	20.0	
	75 Chlorobenzene	112		17.792				ND	
	76 Ethylbenzene	91		17.974				ND	U
	78 m-Xylene & p-Xylene	106		18.224				ND	
	79 o-Xylene	106		19.057				ND	
	80 Styrene	104		19.105				ND	
	81 Bromoform	173		19.516				ND	
	82 Isopropylbenzene	105		19.810				ND	
S	73 Xylenes, Total	106		20.100				ND	7
	84 1,1,2,2-Tetrachloroethane	83		20.493				ND	
	85 N-Propylbenzene	91		20.605				ND	7
	89 2-Chlorotoluene	91		20.797				ND	7
	88 4-Ethyltoluene	105		20.808				ND	
	90 1,3,5-Trimethylbenzene	105		20.930				ND	
	92 tert-Butylbenzene	119		21.448				ND	
	93 1,2,4-Trimethylbenzene	105		21.549				ND	
	94 sec-Butylbenzene	105		21.795				ND	
	95 4-Isopropyltoluene	119		22.014				ND	7
	96 1,3-Dichlorobenzene	146		22.019				ND	7
	97 1,4-Dichlorobenzene	146		22.158				ND	7
	98 Benzyl chloride	91		22.350				ND	7
	100 n-Butylbenzene	91		22.601				ND	7
	101 1,2-Dichlorobenzene	146		22.686				ND	7
	103 1,2,4-Trichlorobenzene	180		25.008				ND	7
	104 Hexachlorobutadiene	225		25.216				ND	
	105 Naphthalene	128		25.419				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

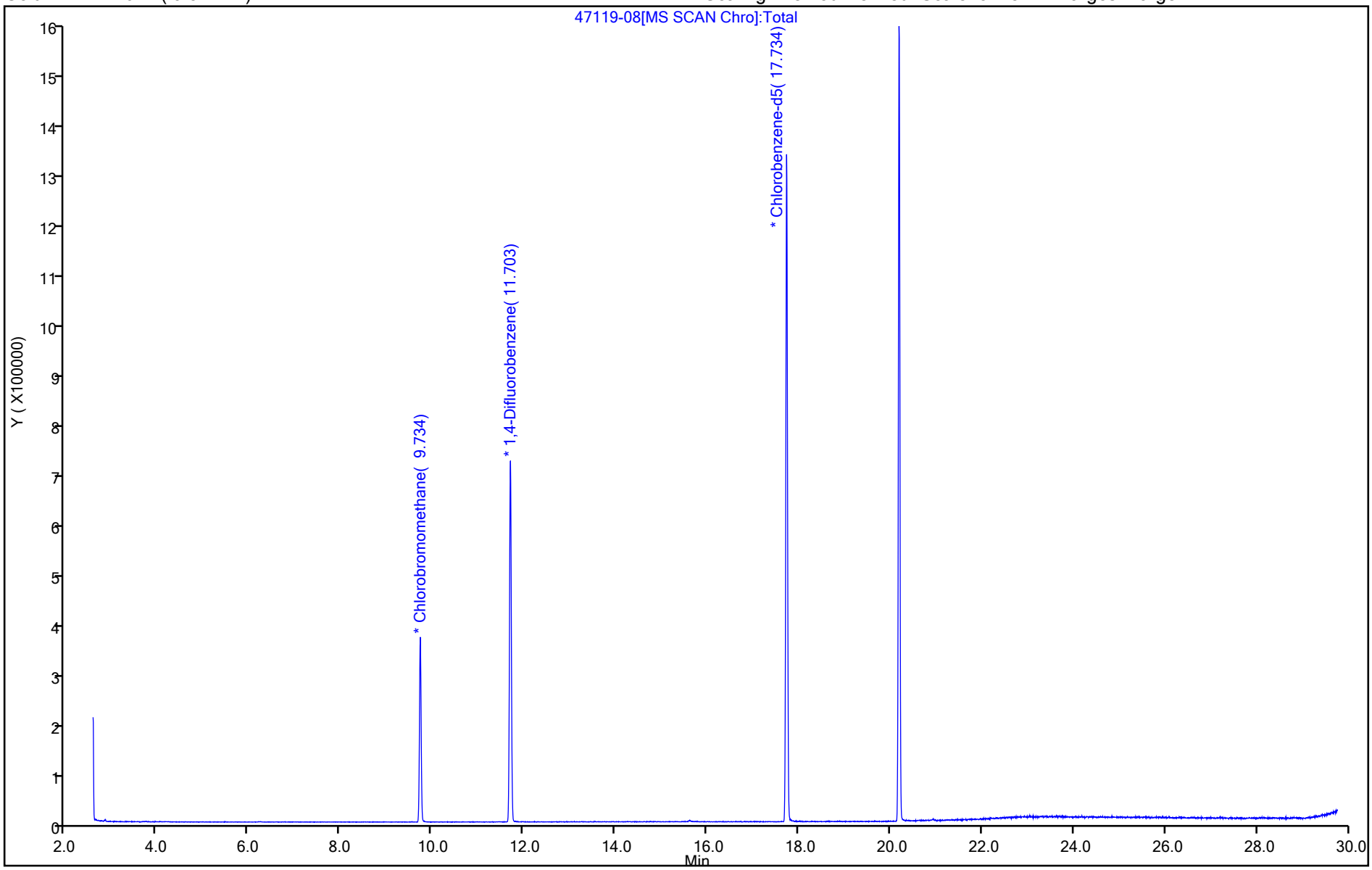
ATTO15CISs_00011 Amount Added: 40.00 Units: mL Run Reagent

Report Date: 12-Aug-2021 07:58:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20210811-47119.b\47119-08.D				
Injection Date:	11-Aug-2021 13:59:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-59576-A-2	Lab Sample ID:	200-59576-2	Worklist Smp#:	8
Client ID:	3283				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



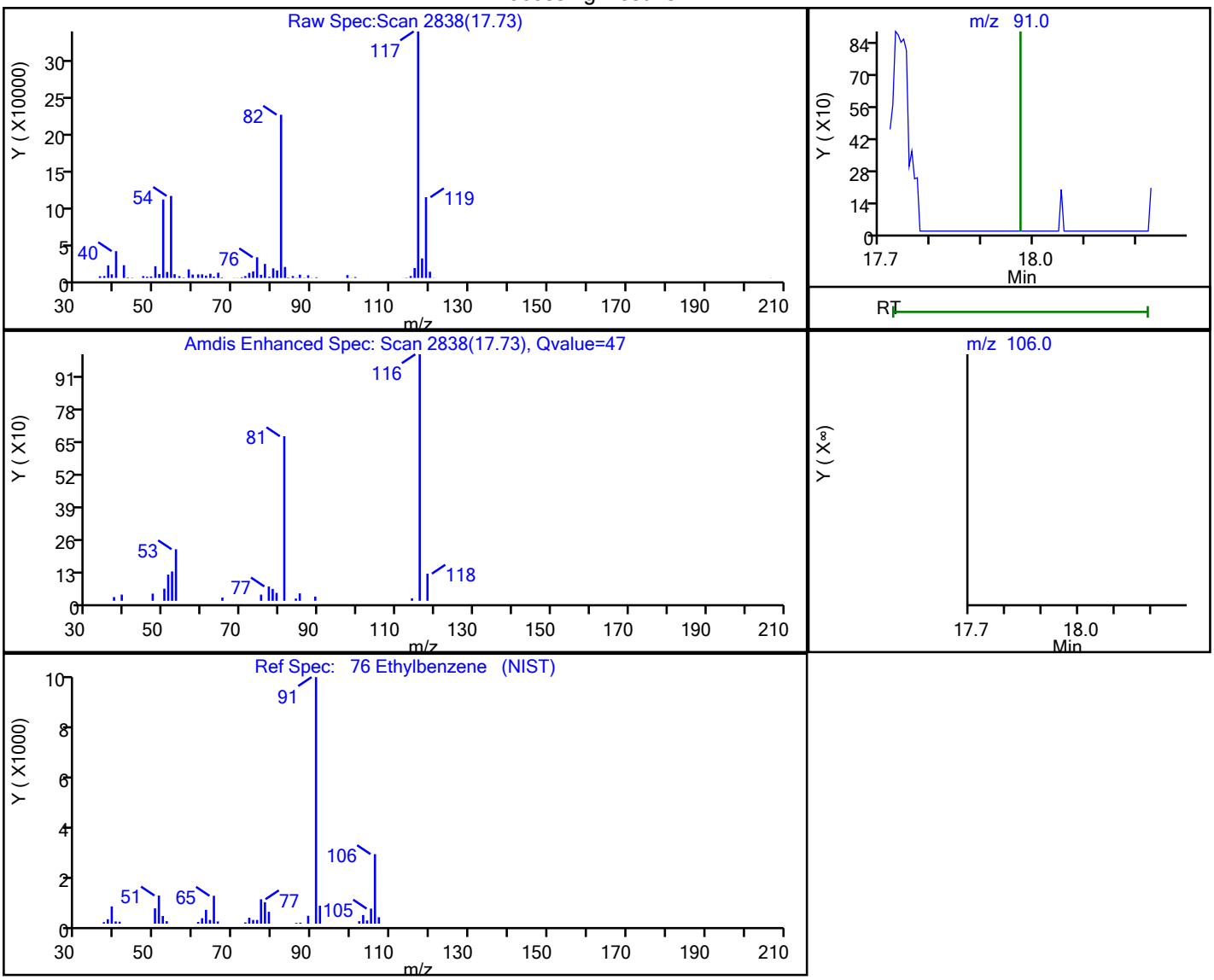
User Disabled Compound Report

Eurofins TestAmerica, Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20210811-47119.b\47119-08.D				
Injection Date:	11-Aug-2021 13:59:30	Instrument ID:	CHC.i		
Lims ID:	200-59576-A-2	Lab Sample ID:	200-59576-2		
Client ID:	3283				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
17.73	91.00	2409	0.028486
17.97	106.00	0	

Reviewer: puangmaleek, 12-Aug-2021 07:58:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 480-189753-1
Client Project/Site: 3077 Union Rd Site - Orchard Park, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
9/28/2021 1:23:14 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-189753-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-189753-1

Comments
No additional comments.

Receipt
The samples were received on 9/17/2021 1:27 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.2º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-597102 recovered above the upper control limit for Carbon tetrachloride, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SED-1 (480-189753-4), SED-2 (480-189753-5), SED-3 (480-189753-6) and BD SED (480-189753-7).

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 480-597823 was outside the method criteria for the following analyte: Chloroform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The associated samples are impacted: SW-1 (480-189753-1), SW-2 (480-189753-2) and BD SW (480-189753-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-597823 recovered outside acceptance criteria, low biased, for Carbon disulfide, Carbon tetrachloride, 1,1-Dichloroethene, 1,1,1-Trichloroethane and 1,1,2-Trichloro-1,2,2-trifluoroethane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The associated samples are impacted: SW-1 (480-189753-1), SW-2 (480-189753-2) and BD SW (480-189753-3).

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-597230 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SW-1 (480-189753-1), SW-2 (480-189753-2) and BD SW (480-189753-3).

Method 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-597023 and analytical batch 480-597230 recovered outside control limits for the following analytes: Pentachlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The following sample was diluted due to color and appearance: SED-3 (480-189753-6). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples were diluted due to color and appearance: SED-3 (480-189753-6[MS]) and SED-3 (480-189753-6[MSD]). Because of this dilution and an elevated final volume at prep, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following sample required a dilution due to color and appearance: SED-3 (480-189753-6). Because of this dilution and an elevated final volume at prep, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SED-1 (480-189753-4). These results have been reported and qualified.

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

Job ID: 480-189753-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

GC Semi VOA

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SED-1 (480-189753-4), SED-2 (480-189753-5) and SED-3 (480-189753-6). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SED-3 (480-189753-6[MS]) and SED-3 (480-189753-6[MSD]). As such, spike and surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8151A: The matrix spike / matrix spike duplicate (MS/MSD/) precision for preparation batch 480-597146 and analytical batch 480-597319 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8151A: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: SW-1 (480-189753-1[MSD]). The parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported.

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

Metals

Method 6010C: The low level continuing calibration verification (CCVL 480-597372/26) recovered above the upper control limit for Total Iron. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples SED-1 (480-189753-4), SED-3 (480-189753-6), (LCSSRM 480-597083/2-A) and (MB 480-597083/1-A) was not performed.

Method 6010C: The serial dilution and post spike (480-189753-B-6-A PDS) and (480-189753-B-6-A SD ^5), associated with batch 480-597384, exceeded the quality control limits for Total Iron. Sample matrix is suspected, therefore, no corrective action was necessary.

Method 6010C: The serial dilution (480-189753-B-6-A SD ^5) associated with batch 480-597372, exhibited a result outside the quality control limits for Total Calcium. However, the post digestion spike (PDS) was compliant, therefore no corrective action was necessary.

Method 6010C: The recovery of post spike, (480-189753-B-6-A PDS), associated with batch 480-597372, exhibited results outside quality control limits for Total Magnesium, Manganese, and Zinc. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

Method 6010C: The recovery of post spike, (480-189753-J-1-A PDS), associated with batch 480-597384, exhibited a result outside quality control limits for Total Calcium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

Method 6010C: The following sample was diluted due to the presence of Total Iron which interferes with Cadmium, Chromium, Manganese, Nickel, Lead, Antimony, and Vanadium: SED-2 (480-189753-5). Elevated reporting limits (RLs) are provided.

Method 6010C: The recovery of post spike, (480-189753-B-6-A PDS), associated with batch 480-597551, exhibited a result outside quality control limits for Total Aluminum. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

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

Organic Prep

Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: 8270SED-3 (480-189753-6), SED-3 (480-189753-6[MS]) and SED-3 (480-189753-6[MSD]). The reporting limits (RLs) are elevated proportionately.

Method 3550C: The following sample: SED-1 (480-189753-4) was decanted prior to preparation.

Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: SED-1 (480-189753-4), SED-2 (480-189753-5), SED-3 (480-189753-6), SED-3 (480-189753-6[MS]), SED-3 (480-189753-6[MSD]) and BD SED (480-189753-7).

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189753-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: SW-1 — Lab Sample ID: 480-189753-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	1.6		1.0	0.39	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.61	J	1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	4.3		1.0	0.34	ug/L	1		8260C	Total/NA
Aluminum	3.8	F1	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.048		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	63.9	B	0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.010		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0019	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0050	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	3.7	F1	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0049	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	8.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.20	B F1	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0057	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	3.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	65.0		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.011		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.016	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: SW-2 — Lab Sample ID: 480-189753-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	1.2		1.0	0.39	ug/L	1		8260C	Total/NA
Chloroform	2.7		1.0	0.34	ug/L	1		8260C	Total/NA
Aluminum	0.17	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.029		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	55.3	B	0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0051		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0025	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.11		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	7.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.017	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	67.5		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0041	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0056	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BD SW — Lab Sample ID: 480-189753-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	1.1		1.0	0.39	ug/L	1		8260C	Total/NA
Chloroform	2.9		1.0	0.34	ug/L	1		8260C	Total/NA
2,4-D	0.22	J	0.48	0.16	ug/L	1		8151A	Total/NA
Aluminum	0.14	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.029		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	55.2	B	0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0047		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0025	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.11		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	7.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.017	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.5		0.50	0.10	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BD SW (Continued)
Lab Sample ID: 480-189753-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	67.1		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0037	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0017	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: SED-1
Lab Sample ID: 480-189753-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.86	J	5.2	0.32	ug/Kg	1	☼	8260C	Total/NA
Anthracene	78	J	180	45	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	460		180	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	520		180	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	850		180	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	570		180	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	350		180	24	ug/Kg	1	☼	8270D	Total/NA
Carbazole	74	J	180	21	ug/Kg	1	☼	8270D	Total/NA
Chrysene	680		180	41	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	110	J	180	32	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1500		180	19	ug/Kg	1	☼	8270D	Total/NA
Fluorene	27	J	180	21	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	410		180	23	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	660		180	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		180	21	ug/Kg	1	☼	8270D	Total/NA
Aluminum	13900		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.9		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	67.5		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.73		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.21	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	35200	B	56.9	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	23.6		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	15.0		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	21.9		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	30600	^+	11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	11.1		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5990		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	867		0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	41.3		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2370		34.2	22.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	151	J B	159	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.7		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	110		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.013	J	0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SED-2
Lab Sample ID: 480-189753-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	130	J	210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	170	J	210	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	290		210	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	190	J	210	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	70	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Chrysene	230		210	46	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SED-2 (Continued)
Lab Sample ID: 480-189753-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	48	J	210	36	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	440		210	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	210	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	210		210	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	400		210	24	ug/Kg	1	☼	8270D	Total/NA
Aluminum	17500		13.0	5.7	mg/Kg	1	☼	6010C	Total/NA
Antimony	11.5	J	39.1	1.0	mg/Kg	2	☼	6010C	Total/NA
Arsenic	41.2		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	120		0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.86		0.26	0.037	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.54		0.52	0.078	mg/Kg	2	☼	6010C	Total/NA
Calcium	20100	B	65.2	4.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	43.2		1.3	0.52	mg/Kg	2	☼	6010C	Total/NA
Cobalt	30.4		0.65	0.065	mg/Kg	1	☼	6010C	Total/NA
Copper	80.6		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	81200		26.1	9.1	mg/Kg	2	☼	6010C	Total/NA
Lead	57.1		2.6	0.63	mg/Kg	2	☼	6010C	Total/NA
Magnesium	8220		26.1	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	1020		0.52	0.083	mg/Kg	2	☼	6010C	Total/NA
Nickel	94.8		13.0	0.60	mg/Kg	2	☼	6010C	Total/NA
Potassium	2750		39.1	26.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.56	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Sodium	167	J B	183	17.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	24.9		1.3	0.29	mg/Kg	2	☼	6010C	Total/NA
Zinc	181		2.6	0.83	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.030		0.028	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SED-3
Lab Sample ID: 480-189753-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	4500	J F2	22000	3500	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3200	J F2 F1	22000	2300	ug/Kg	10	☼	8270D	Total/NA
Aluminum	8630	F1	12.8	5.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.6		2.6	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	67.1	F1	0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.99		0.26	0.036	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.55		0.26	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	90200	B	63.9	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	24.7		0.64	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.3		0.64	0.064	mg/Kg	1	☼	6010C	Total/NA
Copper	28.5		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	20500	^+	12.8	4.5	mg/Kg	1	☼	6010C	Total/NA
Lead	42.2		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	13200		25.6	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	479		0.26	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	31.5		6.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1950	F1	38.4	25.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	271	B	179	16.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	24.5		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	159	F1 F2	2.6	0.82	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.15		0.027	0.0061	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189753-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Client Sample ID: BD SED
Lab Sample ID: 480-189753-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.65	J	5.1	0.32	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	190	J	200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	210		200	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	290		200	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	220		200	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	130	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	270		200	46	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	55	J	200	36	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	600		200	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	170	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270		200	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	510		200	24	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	1.0	J	2.0	0.42	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.93	J	2.0	0.47	ug/Kg	1	☼	8081B	Total/NA
delta-BHC	0.82	J	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	1.1	J	2.0	0.51	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	0.75	J	2.0	0.49	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane)	0.58	J	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
trans-Chlordane	3.0		2.0	0.64	ug/Kg	1	☼	8081B	Total/NA
Aluminum	15400		12.7	5.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.9		2.5	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	63.4		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.84		0.25	0.036	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.25		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	41400	B	63.4	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	27.2		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	19.9		0.63	0.063	mg/Kg	1	☼	6010C	Total/NA
Copper	29.9		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	30300		12.7	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	11.8		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6790		25.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	748		0.25	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	49.1		6.3	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2920		38.1	25.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.81	J	5.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Sodium	161	J B	178	16.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.2		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	75.9		2.5	0.81	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.033		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SW-1
Date Collected: 09/17/21 11:00
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/25/21 06:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/21 06:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/25/21 06:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/25/21 06:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/25/21 06:24	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/25/21 06:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/25/21 06:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/25/21 06:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/25/21 06:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/25/21 06:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/25/21 06:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/25/21 06:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/25/21 06:24	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/25/21 06:24	1
2-Hexanone	ND		5.0	1.2	ug/L			09/25/21 06:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/25/21 06:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/25/21 06:24	1
Acetone	ND		10	3.0	ug/L			09/25/21 06:24	1
Benzene	ND		1.0	0.41	ug/L			09/25/21 06:24	1
Bromodichloromethane	**1.6**		1.0	0.39	ug/L			09/25/21 06:24	1
Bromoform	ND		1.0	0.26	ug/L			09/25/21 06:24	1
Bromomethane	ND		1.0	0.69	ug/L			09/25/21 06:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/25/21 06:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/25/21 06:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/25/21 06:24	1
Dibromochloromethane	**0.61**	**J**	1.0	0.32	ug/L			09/25/21 06:24	1
Chloroethane	ND		1.0	0.32	ug/L			09/25/21 06:24	1
Chloroform	**4.3**		1.0	0.34	ug/L			09/25/21 06:24	1
Chloromethane	ND		1.0	0.35	ug/L			09/25/21 06:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/21 06:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/25/21 06:24	1
Cyclohexane	ND		1.0	0.18	ug/L			09/25/21 06:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/25/21 06:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/25/21 06:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/25/21 06:24	1
Methyl acetate	ND		2.5	1.3	ug/L			09/25/21 06:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/25/21 06:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/25/21 06:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/21 06:24	1
Styrene	ND		1.0	0.73	ug/L			09/25/21 06:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/21 06:24	1
Toluene	ND		1.0	0.51	ug/L			09/25/21 06:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/25/21 06:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/25/21 06:24	1
Trichloroethene	ND		1.0	0.46	ug/L			09/25/21 06:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/25/21 06:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/25/21 06:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/25/21 06:24	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SW-1
Date Collected: 09/17/21 11:00
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*09/25/21 06:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/25/21 06:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/25/21 06:24*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/25/21 06:24*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		09/20/21 08:51	09/22/21 03:52	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/20/21 08:51	09/22/21 03:52	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 03:52	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/20/21 08:51	09/22/21 03:52	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 03:52	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/20/21 08:51	09/22/21 03:52	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 03:52	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 03:52	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 03:52	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 03:52	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/20/21 08:51	09/22/21 03:52	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/20/21 08:51	09/22/21 03:52	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 03:52	1
2-Nitroaniline	ND		10	0.42	ug/L		09/20/21 08:51	09/22/21 03:52	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 03:52	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 03:52	1
3-Nitroaniline	ND		10	0.48	ug/L		09/20/21 08:51	09/22/21 03:52	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 03:52	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 03:52	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 03:52	1
4-Chloroaniline	ND	F2	5.0	0.59	ug/L		09/20/21 08:51	09/22/21 03:52	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 03:52	1
4-Methylphenol	ND		10	0.36	ug/L		09/20/21 08:51	09/22/21 03:52	1
4-Nitroaniline	ND		10	0.25	ug/L		09/20/21 08:51	09/22/21 03:52	1
4-Nitrophenol	ND		10	1.5	ug/L		09/20/21 08:51	09/22/21 03:52	1
Acenaphthene	ND		5.0	0.41	ug/L		09/20/21 08:51	09/22/21 03:52	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/20/21 08:51	09/22/21 03:52	1
Acetophenone	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 03:52	1
Anthracene	ND		5.0	0.28	ug/L		09/20/21 08:51	09/22/21 03:52	1
Atrazine	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 03:52	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/20/21 08:51	09/22/21 03:52	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 03:52	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 03:52	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 03:52	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 03:52	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/20/21 08:51	09/22/21 03:52	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 03:52	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 03:52	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 03:52	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/20/21 08:51	09/22/21 03:52	1
Caprolactam	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 03:52	1
Carbazole	ND		5.0	0.30	ug/L		09/20/21 08:51	09/22/21 03:52	1
Chrysene	ND		5.0	0.33	ug/L		09/20/21 08:51	09/22/21 03:52	1

Client Sample ID: SW-1
Lab Sample ID: 480-189753-1
Date Collected: 09/17/21 11:00
Matrix: Water
Date Received: 09/17/21 13:27

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/20/21 08:51	09/22/21 03:52	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 03:52	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/20/21 08:51	09/22/21 03:52	1
Dibenzofuran	ND		10	0.51	ug/L		09/20/21 08:51	09/22/21 03:52	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/20/21 08:51	09/22/21 03:52	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 03:52	1
Fluoranthene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 03:52	1
Fluorene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 03:52	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 03:52	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/20/21 08:51	09/22/21 03:52	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 03:52	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 03:52	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 03:52	1
Isophorone	ND		5.0	0.43	ug/L		09/20/21 08:51	09/22/21 03:52	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 03:52	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 03:52	1
Naphthalene	ND		5.0	0.76	ug/L		09/20/21 08:51	09/22/21 03:52	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/20/21 08:51	09/22/21 03:52	1
Pentachlorophenol	ND	F1 *+	10	2.2	ug/L		09/20/21 08:51	09/22/21 03:52	1
Phenanthrene	ND		5.0	0.44	ug/L		09/20/21 08:51	09/22/21 03:52	1
Phenol	ND		5.0	0.39	ug/L		09/20/21 08:51	09/22/21 03:52	1
Pyrene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*41 - 120*	*09/20/21 08:51*	*09/22/21 03:52*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*09/20/21 08:51*	*09/22/21 03:52*	*1*
2-Fluorophenol	*60*		*35 - 120*	*09/20/21 08:51*	*09/22/21 03:52*	*1*
Nitrobenzene-d5	*95*		*46 - 120*	*09/20/21 08:51*	*09/22/21 03:52*	*1*
p-Terphenyl-d14	*91*		*60 - 148*	*09/20/21 08:51*	*09/22/21 03:52*	*1*
Phenol-d5	*43*		*22 - 120*	*09/20/21 08:51*	*09/22/21 03:52*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		09/22/21 09:02	09/22/21 15:11	1
4,4'-DDE	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 15:11	1
4,4'-DDT	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 15:11	1
Aldrin	ND		0.050	0.0081	ug/L		09/22/21 09:02	09/22/21 15:11	1
alpha-BHC	ND		0.050	0.0077	ug/L		09/22/21 09:02	09/22/21 15:11	1
cis-Chlordane	ND		0.050	0.015	ug/L		09/22/21 09:02	09/22/21 15:11	1
beta-BHC	ND		0.050	0.025	ug/L		09/22/21 09:02	09/22/21 15:11	1
delta-BHC	ND		0.050	0.010	ug/L		09/22/21 09:02	09/22/21 15:11	1
Dieldrin	ND		0.050	0.0098	ug/L		09/22/21 09:02	09/22/21 15:11	1
Endosulfan I	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 15:11	1
Endosulfan II	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 15:11	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 15:11	1
Endrin	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 15:11	1
Endrin aldehyde	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 15:11	1
Endrin ketone	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 15:11	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		09/22/21 09:02	09/22/21 15:11	1
trans-Chlordane	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 15:11	1

Client Sample ID: SW-1
Lab Sample ID: 480-189753-1
Date Collected: 09/17/21 11:00
Matrix: Water
Date Received: 09/17/21 13:27

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.050	0.0085	ug/L		09/22/21 09:02	09/22/21 15:11	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		09/22/21 09:02	09/22/21 15:11	1
Methoxychlor	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 15:11	1
Toxaphene	ND		0.50	0.12	ug/L		09/22/21 09:02	09/22/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*20 - 120*	*09/22/21 09:02*	*09/22/21 15:11*	*1*
DCB Decachlorobiphenyl	*46*		*20 - 120*	*09/22/21 09:02*	*09/22/21 15:11*	*1*
Tetrachloro-m-xylene	*96*		*44 - 120*	*09/22/21 09:02*	*09/22/21 15:11*	*1*
Tetrachloro-m-xylene	*68*		*44 - 120*	*09/22/21 09:02*	*09/22/21 15:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		09/21/21 08:58	09/21/21 18:54	1
PCB-1221	ND		0.52	0.18	ug/L		09/21/21 08:58	09/21/21 18:54	1
PCB-1232	ND		0.52	0.18	ug/L		09/21/21 08:58	09/21/21 18:54	1
PCB-1242	ND		0.52	0.18	ug/L		09/21/21 08:58	09/21/21 18:54	1
PCB-1248	ND		0.52	0.18	ug/L		09/21/21 08:58	09/21/21 18:54	1
PCB-1254	ND		0.52	0.26	ug/L		09/21/21 08:58	09/21/21 18:54	1
PCB-1260	ND		0.52	0.26	ug/L		09/21/21 08:58	09/21/21 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*19 - 120*	*09/21/21 08:58*	*09/21/21 18:54*	*1*
DCB Decachlorobiphenyl	*56*		*19 - 120*	*09/21/21 08:58*	*09/21/21 18:54*	*1*
Tetrachloro-m-xylene	*101*		*39 - 121*	*09/21/21 08:58*	*09/21/21 18:54*	*1*
Tetrachloro-m-xylene	*98*		*39 - 121*	*09/21/21 08:58*	*09/21/21 18:54*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		09/21/21 09:14	09/22/21 12:48	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		09/21/21 09:14	09/22/21 12:48	1
2,4-D	ND		0.48	0.16	ug/L		09/21/21 09:14	09/22/21 12:48	1
Dichlorprop	ND	F2	0.48	0.11	ug/L		09/21/21 09:14	09/22/21 12:48	1
Dinoseb	ND		0.48	0.13	ug/L		09/21/21 09:14	09/22/21 12:48	1
Pentachlorophenol	ND		0.48	0.047	ug/L		09/21/21 09:14	09/22/21 12:48	1
Picloram	ND		0.48	0.069	ug/L		09/21/21 09:14	09/22/21 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*48 - 132*	*09/21/21 09:14*	*09/22/21 12:48*	*1*
2,4-Dichlorophenylacetic acid	*77*		*48 - 132*	*09/21/21 09:14*	*09/22/21 12:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.8**	**F1**	0.20	0.060	mg/L		09/21/21 09:44	09/22/21 00:15	1
Antimony	ND		0.020	0.0068	mg/L		09/21/21 09:44	09/22/21 00:15	1
Arsenic	ND		0.015	0.0056	mg/L		09/21/21 09:44	09/22/21 00:15	1
Barium	**0.048**		0.0020	0.00070	mg/L		09/21/21 09:44	09/22/21 00:15	1
Beryllium	ND		0.0020	0.00030	mg/L		09/21/21 09:44	09/22/21 00:15	1
Cadmium	ND		0.0020	0.00050	mg/L		09/21/21 09:44	09/22/21 00:15	1
Calcium	**63.9**	**B**	0.50	0.10	mg/L		09/21/21 09:44	09/22/21 00:15	1
Chromium	**0.010**		0.0040	0.0010	mg/L		09/21/21 09:44	09/22/21 00:15	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SW-1
Date Collected: 09/17/21 11:00
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-1
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0019	J	0.0040	0.00063	mg/L		09/21/21 09:44	09/22/21 00:15	1
Copper	0.0050	J	0.010	0.0016	mg/L		09/21/21 09:44	09/22/21 00:15	1
Iron	3.7	F1	0.050	0.019	mg/L		09/21/21 09:44	09/22/21 00:15	1
Lead	0.0049	J	0.010	0.0030	mg/L		09/21/21 09:44	09/22/21 00:15	1
Magnesium	8.2		0.20	0.043	mg/L		09/21/21 09:44	09/22/21 00:15	1
Manganese	0.20	B F1	0.0030	0.00040	mg/L		09/21/21 09:44	09/22/21 00:15	1
Nickel	0.0057	J	0.010	0.0013	mg/L		09/21/21 09:44	09/22/21 00:15	1
Potassium	3.6		0.50	0.10	mg/L		09/21/21 09:44	09/23/21 00:10	1
Selenium	ND		0.025	0.0087	mg/L		09/21/21 09:44	09/22/21 00:15	1
Silver	ND		0.0060	0.0017	mg/L		09/21/21 09:44	09/22/21 00:15	1
Sodium	65.0		1.0	0.32	mg/L		09/21/21 09:44	09/22/21 00:15	1
Thallium	ND		0.020	0.010	mg/L		09/21/21 09:44	09/22/21 00:15	1
Vanadium	0.011		0.0050	0.0015	mg/L		09/21/21 09:44	09/22/21 00:15	1
Zinc	0.016	B	0.010	0.0015	mg/L		09/21/21 09:44	09/22/21 00:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/22/21 13:54	09/22/21 17:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SW-2
Date Collected: 09/17/21 11:15
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/25/21 06:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/21 06:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/25/21 06:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/25/21 06:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/25/21 06:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/25/21 06:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/25/21 06:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/25/21 06:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/25/21 06:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/25/21 06:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/25/21 06:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/25/21 06:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/25/21 06:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/25/21 06:47	1
2-Hexanone	ND		5.0	1.2	ug/L			09/25/21 06:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/25/21 06:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/25/21 06:47	1
Acetone	ND		10	3.0	ug/L			09/25/21 06:47	1
Benzene	ND		1.0	0.41	ug/L			09/25/21 06:47	1
Bromodichloromethane	**1.2**		1.0	0.39	ug/L			09/25/21 06:47	1
Bromoform	ND		1.0	0.26	ug/L			09/25/21 06:47	1
Bromomethane	ND		1.0	0.69	ug/L			09/25/21 06:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/25/21 06:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/25/21 06:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/25/21 06:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/25/21 06:47	1
Chloroethane	ND		1.0	0.32	ug/L			09/25/21 06:47	1
Chloroform	**2.7**		1.0	0.34	ug/L			09/25/21 06:47	1
Chloromethane	ND		1.0	0.35	ug/L			09/25/21 06:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/21 06:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/25/21 06:47	1
Cyclohexane	ND		1.0	0.18	ug/L			09/25/21 06:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/25/21 06:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/25/21 06:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/25/21 06:47	1
Methyl acetate	ND		2.5	1.3	ug/L			09/25/21 06:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/25/21 06:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/25/21 06:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/21 06:47	1
Styrene	ND		1.0	0.73	ug/L			09/25/21 06:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/21 06:47	1
Toluene	ND		1.0	0.51	ug/L			09/25/21 06:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/25/21 06:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/25/21 06:47	1
Trichloroethene	ND		1.0	0.46	ug/L			09/25/21 06:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/25/21 06:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/25/21 06:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/25/21 06:47	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SW-2
Date Collected: 09/17/21 11:15
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/25/21 06:47*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/25/21 06:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/25/21 06:47*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*09/25/21 06:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		09/20/21 08:51	09/22/21 11:42	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/20/21 08:51	09/22/21 11:42	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 11:42	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/20/21 08:51	09/22/21 11:42	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 11:42	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/20/21 08:51	09/22/21 11:42	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 11:42	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 11:42	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 11:42	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 11:42	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/20/21 08:51	09/22/21 11:42	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/20/21 08:51	09/22/21 11:42	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 11:42	1
2-Nitroaniline	ND		10	0.42	ug/L		09/20/21 08:51	09/22/21 11:42	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 11:42	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 11:42	1
3-Nitroaniline	ND		10	0.48	ug/L		09/20/21 08:51	09/22/21 11:42	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 11:42	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 11:42	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 11:42	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 11:42	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 11:42	1
4-Methylphenol	ND		10	0.36	ug/L		09/20/21 08:51	09/22/21 11:42	1
4-Nitroaniline	ND		10	0.25	ug/L		09/20/21 08:51	09/22/21 11:42	1
4-Nitrophenol	ND		10	1.5	ug/L		09/20/21 08:51	09/22/21 11:42	1
Acenaphthene	ND		5.0	0.41	ug/L		09/20/21 08:51	09/22/21 11:42	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/20/21 08:51	09/22/21 11:42	1
Acetophenone	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 11:42	1
Anthracene	ND		5.0	0.28	ug/L		09/20/21 08:51	09/22/21 11:42	1
Atrazine	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 11:42	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/20/21 08:51	09/22/21 11:42	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 11:42	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 11:42	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 11:42	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 11:42	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/20/21 08:51	09/22/21 11:42	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 11:42	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 11:42	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 11:42	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/20/21 08:51	09/22/21 11:42	1
Caprolactam	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 11:42	1
Carbazole	ND		5.0	0.30	ug/L		09/20/21 08:51	09/22/21 11:42	1
Chrysene	ND		5.0	0.33	ug/L		09/20/21 08:51	09/22/21 11:42	1

Client Sample ID: SW-2
Lab Sample ID: 480-189753-2
Date Collected: 09/17/21 11:15
Matrix: Water
Date Received: 09/17/21 13:27

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/20/21 08:51	09/22/21 11:42	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 11:42	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/20/21 08:51	09/22/21 11:42	1
Dibenzofuran	ND		10	0.51	ug/L		09/20/21 08:51	09/22/21 11:42	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/20/21 08:51	09/22/21 11:42	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 11:42	1
Fluoranthene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 11:42	1
Fluorene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 11:42	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 11:42	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/20/21 08:51	09/22/21 11:42	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 11:42	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 11:42	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 11:42	1
Isophorone	ND		5.0	0.43	ug/L		09/20/21 08:51	09/22/21 11:42	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 11:42	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 11:42	1
Naphthalene	ND		5.0	0.76	ug/L		09/20/21 08:51	09/22/21 11:42	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/20/21 08:51	09/22/21 11:42	1
Pentachlorophenol	ND	*+	10	2.2	ug/L		09/20/21 08:51	09/22/21 11:42	1
Phenanthrene	ND		5.0	0.44	ug/L		09/20/21 08:51	09/22/21 11:42	1
Phenol	ND		5.0	0.39	ug/L		09/20/21 08:51	09/22/21 11:42	1
Pyrene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*41 - 120*	*09/20/21 08:51*	*09/22/21 11:42*	*1*
2-Fluorobiphenyl	*88*		*48 - 120*	*09/20/21 08:51*	*09/22/21 11:42*	*1*
2-Fluorophenol	*57*		*35 - 120*	*09/20/21 08:51*	*09/22/21 11:42*	*1*
Nitrobenzene-d5	*90*		*46 - 120*	*09/20/21 08:51*	*09/22/21 11:42*	*1*
p-Terphenyl-d14	*82*		*60 - 148*	*09/20/21 08:51*	*09/22/21 11:42*	*1*
Phenol-d5	*43*		*22 - 120*	*09/20/21 08:51*	*09/22/21 11:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		09/22/21 09:02	09/22/21 16:29	1
4,4'-DDE	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 16:29	1
4,4'-DDT	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 16:29	1
Aldrin	ND		0.050	0.0081	ug/L		09/22/21 09:02	09/22/21 16:29	1
alpha-BHC	ND		0.050	0.0077	ug/L		09/22/21 09:02	09/22/21 16:29	1
cis-Chlordane	ND		0.050	0.015	ug/L		09/22/21 09:02	09/22/21 16:29	1
beta-BHC	ND		0.050	0.025	ug/L		09/22/21 09:02	09/22/21 16:29	1
delta-BHC	ND		0.050	0.010	ug/L		09/22/21 09:02	09/22/21 16:29	1
Dieldrin	ND		0.050	0.0098	ug/L		09/22/21 09:02	09/22/21 16:29	1
Endosulfan I	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 16:29	1
Endosulfan II	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 16:29	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 16:29	1
Endrin	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 16:29	1
Endrin aldehyde	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 16:29	1
Endrin ketone	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 16:29	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		09/22/21 09:02	09/22/21 16:29	1
trans-Chlordane	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 16:29	1

Client Sample ID: SW-2
Lab Sample ID: 480-189753-2
Date Collected: 09/17/21 11:15
Matrix: Water
Date Received: 09/17/21 13:27

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.050	0.0085	ug/L		09/22/21 09:02	09/22/21 16:29	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		09/22/21 09:02	09/22/21 16:29	1
Methoxychlor	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 16:29	1
Toxaphene	ND		0.50	0.12	ug/L		09/22/21 09:02	09/22/21 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*		*20 - 120*	*09/22/21 09:02*	*09/22/21 16:29*	*1*
DCB Decachlorobiphenyl	*47*		*20 - 120*	*09/22/21 09:02*	*09/22/21 16:29*	*1*
Tetrachloro-m-xylene	*90*		*44 - 120*	*09/22/21 09:02*	*09/22/21 16:29*	*1*
Tetrachloro-m-xylene	*80*		*44 - 120*	*09/22/21 09:02*	*09/22/21 16:29*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:15	1
PCB-1221	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:15	1
PCB-1232	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:15	1
PCB-1242	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:15	1
PCB-1248	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:15	1
PCB-1254	ND		0.50	0.25	ug/L		09/21/21 08:58	09/21/21 21:15	1
PCB-1260	ND		0.50	0.25	ug/L		09/21/21 08:58	09/21/21 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*19 - 120*	*09/21/21 08:58*	*09/21/21 21:15*	*1*
DCB Decachlorobiphenyl	*70*		*19 - 120*	*09/21/21 08:58*	*09/21/21 21:15*	*1*
Tetrachloro-m-xylene	*106*		*39 - 121*	*09/21/21 08:58*	*09/21/21 21:15*	*1*
Tetrachloro-m-xylene	*103*		*39 - 121*	*09/21/21 08:58*	*09/21/21 21:15*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		09/21/21 09:14	09/22/21 13:17	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		09/21/21 09:14	09/22/21 13:17	1
2,4-D	ND		0.48	0.16	ug/L		09/21/21 09:14	09/22/21 13:17	1
Dichlorprop	ND		0.48	0.11	ug/L		09/21/21 09:14	09/22/21 13:17	1
Dinoseb	ND		0.48	0.13	ug/L		09/21/21 09:14	09/22/21 13:17	1
Pentachlorophenol	ND		0.48	0.047	ug/L		09/21/21 09:14	09/22/21 13:17	1
Picloram	ND		0.48	0.069	ug/L		09/21/21 09:14	09/22/21 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*89*		*48 - 132*	*09/21/21 09:14*	*09/22/21 13:17*	*1*
2,4-Dichlorophenylacetic acid	*73*		*48 - 132*	*09/21/21 09:14*	*09/22/21 13:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.17**	**J**	0.20	0.060	mg/L		09/21/21 09:44	09/22/21 00:33	1
Antimony	ND		0.020	0.0068	mg/L		09/21/21 09:44	09/22/21 00:33	1
Arsenic	ND		0.015	0.0056	mg/L		09/21/21 09:44	09/22/21 00:33	1
Barium	**0.029**		0.0020	0.00070	mg/L		09/21/21 09:44	09/22/21 00:33	1
Beryllium	ND		0.0020	0.00030	mg/L		09/21/21 09:44	09/22/21 00:33	1
Cadmium	ND		0.0020	0.00050	mg/L		09/21/21 09:44	09/22/21 00:33	1
Calcium	**55.3**	**B**	0.50	0.10	mg/L		09/21/21 09:44	09/22/21 00:33	1
Chromium	**0.0051**		0.0040	0.0010	mg/L		09/21/21 09:44	09/22/21 00:33	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SW-2
Date Collected: 09/17/21 11:15
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-2
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.0040	0.00063	mg/L		09/21/21 09:44	09/22/21 00:33	1
Copper	**0.0025**	**J**	0.010	0.0016	mg/L		09/21/21 09:44	09/22/21 00:33	1
Iron	**0.11**		0.050	0.019	mg/L		09/21/21 09:44	09/22/21 00:33	1
Lead	ND		0.010	0.0030	mg/L		09/21/21 09:44	09/22/21 00:33	1
Magnesium	**7.2**		0.20	0.043	mg/L		09/21/21 09:44	09/22/21 00:33	1
Manganese	**0.017**	**B**	0.0030	0.00040	mg/L		09/21/21 09:44	09/22/21 00:33	1
Nickel	ND		0.010	0.0013	mg/L		09/21/21 09:44	09/22/21 00:33	1
Potassium	**2.6**		0.50	0.10	mg/L		09/21/21 09:44	09/23/21 00:40	1
Selenium	ND		0.025	0.0087	mg/L		09/21/21 09:44	09/22/21 00:33	1
Silver	ND		0.0060	0.0017	mg/L		09/21/21 09:44	09/22/21 00:33	1
Sodium	**67.5**		1.0	0.32	mg/L		09/21/21 09:44	09/22/21 00:33	1
Thallium	ND		0.020	0.010	mg/L		09/21/21 09:44	09/22/21 00:33	1
Vanadium	**0.0041**	**J**	0.0050	0.0015	mg/L		09/21/21 09:44	09/22/21 00:33	1
Zinc	**0.0056**	**J B**	0.010	0.0015	mg/L		09/21/21 09:44	09/22/21 00:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/22/21 13:54	09/22/21 17:33	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: BD SW
Date Collected: 09/17/21 11:05
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/25/21 07:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/21 07:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/25/21 07:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/25/21 07:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/25/21 07:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/25/21 07:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/25/21 07:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/25/21 07:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/25/21 07:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/25/21 07:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/25/21 07:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/25/21 07:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/25/21 07:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/25/21 07:09	1
2-Hexanone	ND		5.0	1.2	ug/L			09/25/21 07:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/25/21 07:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/25/21 07:09	1
Acetone	ND		10	3.0	ug/L			09/25/21 07:09	1
Benzene	ND		1.0	0.41	ug/L			09/25/21 07:09	1
Bromodichloromethane	**1.1**		1.0	0.39	ug/L			09/25/21 07:09	1
Bromoform	ND		1.0	0.26	ug/L			09/25/21 07:09	1
Bromomethane	ND		1.0	0.69	ug/L			09/25/21 07:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/25/21 07:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/25/21 07:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/25/21 07:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/25/21 07:09	1
Chloroethane	ND		1.0	0.32	ug/L			09/25/21 07:09	1
Chloroform	**2.9**		1.0	0.34	ug/L			09/25/21 07:09	1
Chloromethane	ND		1.0	0.35	ug/L			09/25/21 07:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/21 07:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/25/21 07:09	1
Cyclohexane	ND		1.0	0.18	ug/L			09/25/21 07:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/25/21 07:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/25/21 07:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/25/21 07:09	1
Methyl acetate	ND		2.5	1.3	ug/L			09/25/21 07:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/25/21 07:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/25/21 07:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/21 07:09	1
Styrene	ND		1.0	0.73	ug/L			09/25/21 07:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/21 07:09	1
Toluene	ND		1.0	0.51	ug/L			09/25/21 07:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/25/21 07:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/25/21 07:09	1
Trichloroethene	ND		1.0	0.46	ug/L			09/25/21 07:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/25/21 07:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/25/21 07:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/25/21 07:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: BD SW
Date Collected: 09/17/21 11:05
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/25/21 07:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/25/21 07:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/25/21 07:09*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/25/21 07:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		09/20/21 08:51	09/22/21 12:08	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/20/21 08:51	09/22/21 12:08	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 12:08	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/20/21 08:51	09/22/21 12:08	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 12:08	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/20/21 08:51	09/22/21 12:08	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 12:08	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 12:08	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 12:08	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 12:08	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/20/21 08:51	09/22/21 12:08	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/20/21 08:51	09/22/21 12:08	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 12:08	1
2-Nitroaniline	ND		10	0.42	ug/L		09/20/21 08:51	09/22/21 12:08	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 12:08	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 12:08	1
3-Nitroaniline	ND		10	0.48	ug/L		09/20/21 08:51	09/22/21 12:08	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 12:08	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 12:08	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 12:08	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 12:08	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 12:08	1
4-Methylphenol	ND		10	0.36	ug/L		09/20/21 08:51	09/22/21 12:08	1
4-Nitroaniline	ND		10	0.25	ug/L		09/20/21 08:51	09/22/21 12:08	1
4-Nitrophenol	ND		10	1.5	ug/L		09/20/21 08:51	09/22/21 12:08	1
Acenaphthene	ND		5.0	0.41	ug/L		09/20/21 08:51	09/22/21 12:08	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/20/21 08:51	09/22/21 12:08	1
Acetophenone	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 12:08	1
Anthracene	ND		5.0	0.28	ug/L		09/20/21 08:51	09/22/21 12:08	1
Atrazine	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 12:08	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/20/21 08:51	09/22/21 12:08	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 12:08	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 12:08	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 12:08	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 12:08	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/20/21 08:51	09/22/21 12:08	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 12:08	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 12:08	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 12:08	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/20/21 08:51	09/22/21 12:08	1
Caprolactam	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 12:08	1
Carbazole	ND		5.0	0.30	ug/L		09/20/21 08:51	09/22/21 12:08	1
Chrysene	ND		5.0	0.33	ug/L		09/20/21 08:51	09/22/21 12:08	1

Client Sample ID: BD SW
Lab Sample ID: 480-189753-3
Date Collected: 09/17/21 11:05
Matrix: Water
Date Received: 09/17/21 13:27

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/20/21 08:51	09/22/21 12:08	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 12:08	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/20/21 08:51	09/22/21 12:08	1
Dibenzofuran	ND		10	0.51	ug/L		09/20/21 08:51	09/22/21 12:08	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/20/21 08:51	09/22/21 12:08	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 12:08	1
Fluoranthene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 12:08	1
Fluorene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 12:08	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 12:08	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/20/21 08:51	09/22/21 12:08	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 12:08	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 12:08	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 12:08	1
Isophorone	ND		5.0	0.43	ug/L		09/20/21 08:51	09/22/21 12:08	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 12:08	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 12:08	1
Naphthalene	ND		5.0	0.76	ug/L		09/20/21 08:51	09/22/21 12:08	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/20/21 08:51	09/22/21 12:08	1
Pentachlorophenol	ND	*+	10	2.2	ug/L		09/20/21 08:51	09/22/21 12:08	1
Phenanthrene	ND		5.0	0.44	ug/L		09/20/21 08:51	09/22/21 12:08	1
Phenol	ND		5.0	0.39	ug/L		09/20/21 08:51	09/22/21 12:08	1
Pyrene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*112*		*41 - 120*	*09/20/21 08:51*	*09/22/21 12:08*	*1*
2-Fluorobiphenyl	*96*		*48 - 120*	*09/20/21 08:51*	*09/22/21 12:08*	*1*
2-Fluorophenol	*61*		*35 - 120*	*09/20/21 08:51*	*09/22/21 12:08*	*1*
Nitrobenzene-d5	*91*		*46 - 120*	*09/20/21 08:51*	*09/22/21 12:08*	*1*
p-Terphenyl-d14	*85*		*60 - 148*	*09/20/21 08:51*	*09/22/21 12:08*	*1*
Phenol-d5	*47*		*22 - 120*	*09/20/21 08:51*	*09/22/21 12:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		09/22/21 09:02	09/22/21 16:48	1
4,4'-DDE	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 16:48	1
4,4'-DDT	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 16:48	1
Aldrin	ND		0.050	0.0081	ug/L		09/22/21 09:02	09/22/21 16:48	1
alpha-BHC	ND		0.050	0.0077	ug/L		09/22/21 09:02	09/22/21 16:48	1
cis-Chlordane	ND		0.050	0.015	ug/L		09/22/21 09:02	09/22/21 16:48	1
beta-BHC	ND		0.050	0.025	ug/L		09/22/21 09:02	09/22/21 16:48	1
delta-BHC	ND		0.050	0.010	ug/L		09/22/21 09:02	09/22/21 16:48	1
Dieldrin	ND		0.050	0.0098	ug/L		09/22/21 09:02	09/22/21 16:48	1
Endosulfan I	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 16:48	1
Endosulfan II	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 16:48	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 16:48	1
Endrin	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 16:48	1
Endrin aldehyde	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 16:48	1
Endrin ketone	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 16:48	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		09/22/21 09:02	09/22/21 16:48	1
trans-Chlordane	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 16:48	1

Client Sample ID: BD SW
Lab Sample ID: 480-189753-3
Date Collected: 09/17/21 11:05
Matrix: Water
Date Received: 09/17/21 13:27

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.050	0.0085	ug/L		09/22/21 09:02	09/22/21 16:48	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		09/22/21 09:02	09/22/21 16:48	1
Methoxychlor	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 16:48	1
Toxaphene	ND		0.50	0.12	ug/L		09/22/21 09:02	09/22/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*36*		*20 - 120*	*09/22/21 09:02*	*09/22/21 16:48*	*1*
DCB Decachlorobiphenyl	*46*		*20 - 120*	*09/22/21 09:02*	*09/22/21 16:48*	*1*
Tetrachloro-m-xylene	*85*		*44 - 120*	*09/22/21 09:02*	*09/22/21 16:48*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*09/22/21 09:02*	*09/22/21 16:48*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:27	1
PCB-1221	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:27	1
PCB-1232	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:27	1
PCB-1242	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:27	1
PCB-1248	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 21:27	1
PCB-1254	ND		0.50	0.25	ug/L		09/21/21 08:58	09/21/21 21:27	1
PCB-1260	ND		0.50	0.25	ug/L		09/21/21 08:58	09/21/21 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*19 - 120*	*09/21/21 08:58*	*09/21/21 21:27*	*1*
DCB Decachlorobiphenyl	*68*		*19 - 120*	*09/21/21 08:58*	*09/21/21 21:27*	*1*
Tetrachloro-m-xylene	*112*		*39 - 121*	*09/21/21 08:58*	*09/21/21 21:27*	*1*
Tetrachloro-m-xylene	*111*		*39 - 121*	*09/21/21 08:58*	*09/21/21 21:27*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		09/21/21 09:14	09/22/21 13:47	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		09/21/21 09:14	09/22/21 13:47	1
2,4-D	**0.22**	**J**	0.48	0.16	ug/L		09/21/21 09:14	09/22/21 13:47	1
Dichlorprop	ND		0.48	0.11	ug/L		09/21/21 09:14	09/22/21 13:47	1
Dinoseb	ND		0.48	0.13	ug/L		09/21/21 09:14	09/22/21 13:47	1
Pentachlorophenol	ND		0.48	0.047	ug/L		09/21/21 09:14	09/22/21 13:47	1
Picloram	ND		0.48	0.069	ug/L		09/21/21 09:14	09/22/21 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*48 - 132*	*09/21/21 09:14*	*09/22/21 13:47*	*1*
2,4-Dichlorophenylacetic acid	*85*		*48 - 132*	*09/21/21 09:14*	*09/22/21 13:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**	**J**	0.20	0.060	mg/L		09/21/21 09:44	09/22/21 00:36	1
Antimony	ND		0.020	0.0068	mg/L		09/21/21 09:44	09/22/21 00:36	1
Arsenic	ND		0.015	0.0056	mg/L		09/21/21 09:44	09/22/21 00:36	1
Barium	**0.029**		0.0020	0.00070	mg/L		09/21/21 09:44	09/22/21 00:36	1
Beryllium	ND		0.0020	0.00030	mg/L		09/21/21 09:44	09/22/21 00:36	1
Cadmium	ND		0.0020	0.00050	mg/L		09/21/21 09:44	09/22/21 00:36	1
Calcium	**55.2**	**B**	0.50	0.10	mg/L		09/21/21 09:44	09/22/21 00:36	1
Chromium	**0.0047**		0.0040	0.0010	mg/L		09/21/21 09:44	09/22/21 00:36	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: BD SW
Date Collected: 09/17/21 11:05
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-3
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.0040	0.00063	mg/L		09/21/21 09:44	09/22/21 00:36	1
Copper	**0.0025**	**J**	0.010	0.0016	mg/L		09/21/21 09:44	09/22/21 00:36	1
Iron	**0.11**		0.050	0.019	mg/L		09/21/21 09:44	09/22/21 00:36	1
Lead	ND		0.010	0.0030	mg/L		09/21/21 09:44	09/22/21 00:36	1
Magnesium	**7.2**		0.20	0.043	mg/L		09/21/21 09:44	09/22/21 00:36	1
Manganese	**0.017**	**B**	0.0030	0.00040	mg/L		09/21/21 09:44	09/22/21 00:36	1
Nickel	ND		0.010	0.0013	mg/L		09/21/21 09:44	09/22/21 00:36	1
Potassium	**2.5**		0.50	0.10	mg/L		09/21/21 09:44	09/23/21 00:44	1
Selenium	ND		0.025	0.0087	mg/L		09/21/21 09:44	09/22/21 00:36	1
Silver	ND		0.0060	0.0017	mg/L		09/21/21 09:44	09/22/21 00:36	1
Sodium	**67.1**		1.0	0.32	mg/L		09/21/21 09:44	09/22/21 00:36	1
Thallium	ND		0.020	0.010	mg/L		09/21/21 09:44	09/22/21 00:36	1
Vanadium	**0.0037**	**J**	0.0050	0.0015	mg/L		09/21/21 09:44	09/22/21 00:36	1
Zinc	**0.0017**	**J B**	0.010	0.0015	mg/L		09/21/21 09:44	09/22/21 00:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/22/21 13:54	09/22/21 17:34	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-1
Date Collected: 09/17/21 10:30
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-4
Matrix: Solid
Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.38	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.85	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,1,2-Trichloroethane	ND		5.2	0.68	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,1-Dichloroethane	ND		5.2	0.64	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,1-Dichloroethene	ND		5.2	0.64	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,2-Dibromoethane	ND		5.2	0.67	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,2-Dichlorobenzene	ND		5.2	0.41	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,3-Dichlorobenzene	ND		5.2	0.27	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
1,4-Dichlorobenzene	ND		5.2	0.73	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Acetone	ND		26	4.4	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Benzene	ND		5.2	0.26	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Bromodichloromethane	ND		5.2	0.70	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Bromomethane	ND		5.2	0.47	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Carbon tetrachloride	ND		5.2	0.50	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Chlorobenzene	ND		5.2	0.69	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Chloroform	**0.86**	**J**	5.2	0.32	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Chloromethane	ND		5.2	0.31	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
cis-1,2-Dichloroethene	ND		5.2	0.67	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
cis-1,3-Dichloropropene	ND		5.2	0.75	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Cyclohexane	ND		5.2	0.73	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Dibromochloromethane	ND		5.2	0.67	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Isopropylbenzene	ND		5.2	0.79	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Methyl acetate	ND		26	3.1	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Methyl tert-butyl ether	ND		5.2	0.51	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Methylcyclohexane	ND		5.2	0.79	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Methylene Chloride	ND		5.2	2.4	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Styrene	ND		5.2	0.26	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Tetrachloroethene	ND		5.2	0.70	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Toluene	ND		5.2	0.39	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Trichloroethene	ND		5.2	1.1	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Trichlorofluoromethane	ND		5.2	0.49	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Vinyl chloride	ND		5.2	0.64	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1
Xylenes, Total	ND		10	0.88	ug/Kg	☼	09/17/21 16:07	09/20/21 20:32	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-1
Date Collected: 09/17/21 10:30
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-4
Matrix: Solid
Percent Solids: 90.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*09/17/21 16:07*	*09/20/21 20:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*09/17/21 16:07*	*09/20/21 20:32*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*09/17/21 16:07*	*09/20/21 20:32*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*09/17/21 16:07*	*09/20/21 20:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	59	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2,4,5-Trichlorophenol	ND		180	49	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2,4,6-Trichlorophenol	ND		180	37	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2,4-Dichlorophenol	ND		180	19	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2,4-Dimethylphenol	ND		180	44	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2,4-Dinitrophenol	ND		1800	840	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2,4-Dinitrotoluene	ND		180	38	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2,6-Dinitrotoluene	ND		180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2-Chloronaphthalene	ND		180	30	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2-Chlorophenol	ND		350	33	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2-Methylnaphthalene	ND		180	37	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2-Methylphenol	ND		180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2-Nitroaniline	ND		350	27	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
2-Nitrophenol	ND		180	52	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
3,3'-Dichlorobenzidine	ND		350	210	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
3-Nitroaniline	ND		350	50	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4,6-Dinitro-2-methylphenol	ND		350	180	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4-Bromophenyl phenyl ether	ND		180	26	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4-Chloro-3-methylphenol	ND		180	45	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4-Chloroaniline	ND		180	45	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4-Chlorophenyl phenyl ether	ND		180	23	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4-Methylphenol	ND		350	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4-Nitroaniline	ND		350	96	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
4-Nitrophenol	ND		350	130	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Acenaphthene	ND		180	27	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Acenaphthylene	ND		180	24	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Acetophenone	ND		180	25	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Anthracene	**78**	**J**	180	45	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Atrazine	ND		180	63	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Benzaldehyde	ND		180	150	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Benzo[a]anthracene	**460**		180	18	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Benzo[a]pyrene	**520**		180	27	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Benzo[b]fluoranthene	**850**		180	29	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Benzo[g,h,i]perylene	**570**		180	19	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Benzo[k]fluoranthene	**350**		180	24	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Biphenyl	ND		180	27	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Bis(2-chloroethoxy)methane	ND		180	39	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Bis(2-chloroethyl)ether	ND		180	24	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Bis(2-ethylhexyl) phthalate	ND		180	62	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Butyl benzyl phthalate	ND		180	30	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Caprolactam	ND		180	55	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Carbazole	**74**	**J**	180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1

Client Sample ID: SED-1
Lab Sample ID: 480-189753-4
Date Collected: 09/17/21 10:30
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**680**		180	41	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Dibenz(a,h)anthracene	**110**	**J**	180	32	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Dibenzofuran	ND		180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Diethyl phthalate	ND		180	24	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Dimethyl phthalate	ND		180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Di-n-butyl phthalate	ND		180	31	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Di-n-octyl phthalate	ND		180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Fluoranthene	**1500**		180	19	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Fluorene	**27**	**J**	180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Hexachlorobenzene	ND		180	25	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Hexachlorocyclopentadiene	ND		180	25	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Hexachloroethane	ND		180	24	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Indeno[1,2,3-cd]pyrene	**410**		180	23	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Isophorone	ND		180	39	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Naphthalene	ND		180	24	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Nitrobenzene	ND		180	20	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
N-Nitrosodi-n-propylamine	ND		180	31	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
N-Nitrosodiphenylamine	ND		180	150	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Pentachlorophenol	ND		350	180	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Phenanthrene	**660**		180	27	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Phenol	ND		180	28	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1
Pyrene	**1200**		180	21	ug/Kg	☼	09/21/21 14:57	09/23/21 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*54 - 120*	*09/21/21 14:57*	*09/23/21 15:06*	*1*
2-Fluorobiphenyl	*60*		*60 - 120*	*09/21/21 14:57*	*09/23/21 15:06*	*1*
2-Fluorophenol	*53*		*52 - 120*	*09/21/21 14:57*	*09/23/21 15:06*	*1*
Nitrobenzene-d5	*50*	*S1-*	*53 - 120*	*09/21/21 14:57*	*09/23/21 15:06*	*1*
Phenol-d5	*56*		*54 - 120*	*09/21/21 14:57*	*09/23/21 15:06*	*1*
p-Terphenyl-d14	*88*		*79 - 130*	*09/21/21 14:57*	*09/23/21 15:06*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		37	7.2	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
4,4'-DDE	ND		37	7.7	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
4,4'-DDT	ND		37	8.6	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Aldrin	ND		37	9.0	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
alpha-BHC	ND		37	6.6	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
beta-BHC	ND		37	6.6	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
cis-Chlordane	ND		37	18	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
delta-BHC	ND		37	6.8	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Dieldrin	ND		37	8.8	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Endosulfan I	ND		37	7.1	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Endosulfan II	ND		37	6.6	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Endosulfan sulfate	ND		37	6.9	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Endrin	ND		37	7.3	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Endrin aldehyde	ND		37	9.4	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Endrin ketone	ND		37	9.0	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
gamma-BHC (Lindane)	ND		37	6.8	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20

Client Sample ID: SED-1
Lab Sample ID: 480-189753-4
Date Collected: 09/17/21 10:30
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 90.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		37	8.0	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Heptachlor epoxide	ND		37	9.5	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Methoxychlor	ND		37	7.5	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
Toxaphene	ND		370	210	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20
trans-Chlordane	ND		37	12	ug/Kg	☼	09/24/21 08:13	09/27/21 13:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*09/24/21 08:13*	*09/27/21 13:06*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*09/24/21 08:13*	*09/27/21 13:06*	*20*
Tetrachloro-m-xylene	*175*	*S1+*	*30 - 124*	*09/24/21 08:13*	*09/27/21 13:06*	*20*
Tetrachloro-m-xylene	*133*	*S1+*	*30 - 124*	*09/24/21 08:13*	*09/27/21 13:06*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.040	mg/Kg	☼	09/23/21 07:21	09/23/21 22:14	1
PCB-1221	ND		0.20	0.040	mg/Kg	☼	09/23/21 07:21	09/23/21 22:14	1
PCB-1232	ND		0.20	0.040	mg/Kg	☼	09/23/21 07:21	09/23/21 22:14	1
PCB-1242	ND		0.20	0.040	mg/Kg	☼	09/23/21 07:21	09/23/21 22:14	1
PCB-1248	ND		0.20	0.040	mg/Kg	☼	09/23/21 07:21	09/23/21 22:14	1
PCB-1254	ND		0.20	0.096	mg/Kg	☼	09/23/21 07:21	09/23/21 22:14	1
PCB-1260	ND		0.20	0.096	mg/Kg	☼	09/23/21 07:21	09/23/21 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*60 - 154*	*09/23/21 07:21*	*09/23/21 22:14*	*1*
Tetrachloro-m-xylene	*116*		*60 - 154*	*09/23/21 07:21*	*09/23/21 22:14*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*09/23/21 07:21*	*09/23/21 22:14*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*09/23/21 07:21*	*09/23/21 22:14*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.9	ug/Kg	☼	09/20/21 07:12	09/21/21 23:18	1
2,4-D	ND		18	12	ug/Kg	☼	09/20/21 07:12	09/21/21 23:18	1
Silvex (2,4,5-TP)	ND		18	6.6	ug/Kg	☼	09/20/21 07:12	09/21/21 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*09/20/21 07:12*	*09/21/21 23:18*	*1*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*	*09/20/21 07:12*	*09/21/21 23:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13900**		11.4	5.0	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Antimony	ND		17.1	0.46	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Arsenic	**5.9**		2.3	0.46	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Barium	**67.5**		0.57	0.13	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Beryllium	**0.73**		0.23	0.032	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Cadmium	**0.21**	**J**	0.23	0.034	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Calcium	**35200**	**B**	56.9	3.8	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Chromium	**23.6**		0.57	0.23	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Cobalt	**15.0**		0.57	0.057	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Copper	**21.9**		1.1	0.24	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Iron	**30600**	**^+**	11.4	4.0	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-1
Date Collected: 09/17/21 10:30
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-4
Matrix: Solid
Percent Solids: 90.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11.1		1.1	0.27	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Magnesium	5990		22.8	1.1	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Manganese	867		0.23	0.036	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Nickel	41.3		5.7	0.26	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Potassium	2370		34.2	22.8	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Selenium	ND		4.6	0.46	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Silver	ND		0.68	0.23	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Sodium	151	J B	159	14.8	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Thallium	ND		6.8	0.34	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Vanadium	22.7		0.57	0.13	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1
Zinc	110		2.3	0.73	mg/Kg	☼	09/20/21 17:10	09/21/21 22:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.023	0.0054	mg/Kg	☼	09/24/21 14:07	09/24/21 15:49	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-2
Date Collected: 09/17/21 10:15
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-5
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.74	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,1,2-Trichloroethane	ND		4.6	0.59	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Acetone	**4.3**	**J**	23	3.9	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Benzene	ND		4.6	0.22	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Bromodichloromethane	ND		4.6	0.61	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Chlorobenzene	ND		4.6	0.60	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Styrene	ND		4.6	0.23	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Tetrachloroethene	ND		4.6	0.61	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Toluene	ND		4.6	0.35	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1
Xylenes, Total	ND		9.1	0.77	ug/Kg	☼	09/17/21 16:07	09/20/21 20:56	1

Client Sample ID: SED-2
Date Collected: 09/17/21 10:15
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-5
Matrix: Solid
Percent Solids: 79.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*09/17/21 16:07*	*09/20/21 20:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*09/17/21 16:07*	*09/20/21 20:56*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*09/17/21 16:07*	*09/20/21 20:56*	*1*
Toluene-d8 (Surr)	*95*		*71 - 125*	*09/17/21 16:07*	*09/20/21 20:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	67	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2-Chlorophenol	ND		400	38	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2-Methylphenol	ND		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4-Methylphenol	ND		400	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Acenaphthene	ND		210	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Acenaphthylene	ND		210	27	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Acetophenone	ND		210	28	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Anthracene	ND		210	51	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Atrazine	ND		210	72	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Benzaldehyde	ND		210	160	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Benzo[a]anthracene	**130**	**J**	210	21	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Benzo[a]pyrene	**170**	**J**	210	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Benzo[b]fluoranthene	**290**		210	33	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Benzo[g,h,i]perylene	**190**	**J**	210	22	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Benzo[k]fluoranthene	**70**	**J**	210	27	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Biphenyl	ND		210	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Caprolactam	ND		210	62	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Carbazole	ND		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1

Client Sample ID: SED-2
Lab Sample ID: 480-189753-5
Date Collected: 09/17/21 10:15
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**230**		210	46	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Dibenz(a,h)anthracene	**48**	**J**	210	36	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Dibenzofuran	ND		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Fluoranthene	**440**		210	22	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Fluorene	ND		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Hexachloroethane	ND		210	27	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Indeno[1,2,3-cd]pyrene	**150**	**J**	210	25	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Isophorone	ND		210	44	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Naphthalene	ND		210	27	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Nitrobenzene	ND		210	23	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Phenanthrene	**210**		210	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Phenol	ND		210	32	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1
Pyrene	**400**		210	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*54 - 120*	*09/21/21 14:57*	*09/23/21 00:29*	*1*
2-Fluorobiphenyl	*78*		*60 - 120*	*09/21/21 14:57*	*09/23/21 00:29*	*1*
2-Fluorophenol	*63*		*52 - 120*	*09/21/21 14:57*	*09/23/21 00:29*	*1*
Nitrobenzene-d5	*66*		*53 - 120*	*09/21/21 14:57*	*09/23/21 00:29*	*1*
Phenol-d5	*72*		*54 - 120*	*09/21/21 14:57*	*09/23/21 00:29*	*1*
p-Terphenyl-d14	*93*		*79 - 130*	*09/21/21 14:57*	*09/23/21 00:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		10	2.0	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
4,4'-DDE	ND		10	2.1	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
4,4'-DDT	ND		10	2.4	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Aldrin	ND		10	2.5	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
alpha-BHC	ND		10	1.8	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
beta-BHC	ND		10	1.8	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
cis-Chlordane	ND		10	5.1	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
delta-BHC	ND		10	1.9	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Dieldrin	ND		10	2.5	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Endosulfan I	ND		10	2.0	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Endosulfan II	ND		10	1.8	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Endosulfan sulfate	ND		10	1.9	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Endrin	ND		10	2.0	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Endrin aldehyde	ND		10	2.6	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Endrin ketone	ND		10	2.5	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
gamma-BHC (Lindane)	ND		10	1.9	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5

Client Sample ID: SED-2
Lab Sample ID: 480-189753-5
Date Collected: 09/17/21 10:15
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 79.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		10	2.2	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Heptachlor epoxide	ND		10	2.6	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Methoxychlor	ND		10	2.1	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
Toxaphene	ND		100	59	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5
trans-Chlordane	ND		10	3.2	ug/Kg	☼	09/24/21 08:13	09/27/21 13:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*45 - 120*	*09/24/21 08:13*	*09/27/21 13:26*	*5*
DCB Decachlorobiphenyl	*119*		*45 - 120*	*09/24/21 08:13*	*09/27/21 13:26*	*5*
Tetrachloro-m-xylene	*109*		*30 - 124*	*09/24/21 08:13*	*09/27/21 13:26*	*5*
Tetrachloro-m-xylene	*88*		*30 - 124*	*09/24/21 08:13*	*09/27/21 13:26*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.050	mg/Kg	☼	09/23/21 07:21	09/23/21 22:27	1
PCB-1221	ND		0.25	0.050	mg/Kg	☼	09/23/21 07:21	09/23/21 22:27	1
PCB-1232	ND		0.25	0.050	mg/Kg	☼	09/23/21 07:21	09/23/21 22:27	1
PCB-1242	ND		0.25	0.050	mg/Kg	☼	09/23/21 07:21	09/23/21 22:27	1
PCB-1248	ND		0.25	0.050	mg/Kg	☼	09/23/21 07:21	09/23/21 22:27	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	09/23/21 07:21	09/23/21 22:27	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	09/23/21 07:21	09/23/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*09/23/21 07:21*	*09/23/21 22:27*	*1*
Tetrachloro-m-xylene	*117*		*60 - 154*	*09/23/21 07:21*	*09/23/21 22:27*	*1*
DCB Decachlorobiphenyl	*143*		*65 - 174*	*09/23/21 07:21*	*09/23/21 22:27*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*09/23/21 07:21*	*09/23/21 22:27*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		21	6.6	ug/Kg	☼	09/20/21 07:12	09/21/21 23:47	1
2,4-D	ND		21	13	ug/Kg	☼	09/20/21 07:12	09/21/21 23:47	1
Silvex (2,4,5-TP)	ND		21	7.5	ug/Kg	☼	09/20/21 07:12	09/21/21 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*09/20/21 07:12*	*09/21/21 23:47*	*1*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*09/20/21 07:12*	*09/21/21 23:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17500**		13.0	5.7	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Antimony	**11.5**	**J**	39.1	1.0	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2
Arsenic	**41.2**		2.6	0.52	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Barium	**120**		0.65	0.14	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Beryllium	**0.86**		0.26	0.037	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Cadmium	**0.54**		0.52	0.078	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2
Calcium	**20100**	**B**	65.2	4.3	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Chromium	**43.2**		1.3	0.52	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2
Cobalt	**30.4**		0.65	0.065	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Copper	**80.6**		1.3	0.27	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Iron	**81200**		26.1	9.1	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-2
Date Collected: 09/17/21 10:15
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-5
Matrix: Solid
Percent Solids: 79.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	57.1		2.6	0.63	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2
Magnesium	8220		26.1	1.2	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Manganese	1020		0.52	0.083	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2
Nickel	94.8		13.0	0.60	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2
Potassium	2750		39.1	26.1	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Selenium	0.56	J	5.2	0.52	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Silver	ND		0.78	0.26	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Sodium	167	J B	183	17.0	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Thallium	ND		7.8	0.39	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1
Vanadium	24.9		1.3	0.29	mg/Kg	☼	09/20/21 17:10	09/23/21 01:00	2
Zinc	181		2.6	0.83	mg/Kg	☼	09/20/21 17:10	09/21/21 22:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.028	0.0064	mg/Kg	☼	09/24/21 14:07	09/24/21 15:50	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-3
Date Collected: 09/17/21 10:00
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-6
Matrix: Solid
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	6.6	0.48	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,1,2,2-Tetrachloroethane	ND	F1	6.6	1.1	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	6.6	1.5	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,1,2-Trichloroethane	ND	F1	6.6	0.86	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,1-Dichloroethane	ND		6.6	0.80	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,1-Dichloroethene	ND		6.6	0.81	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,2,4-Trichlorobenzene	ND	F2 F1	6.6	0.40	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,2-Dibromo-3-Chloropropane	ND	F1	6.6	3.3	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,2-Dibromoethane	ND	F1	6.6	0.85	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,2-Dichlorobenzene	ND	F1	6.6	0.52	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,2-Dichloroethane	ND		6.6	0.33	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,2-Dichloropropane	ND	F1	6.6	3.3	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,3-Dichlorobenzene	ND	F1	6.6	0.34	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
1,4-Dichlorobenzene	ND	F1	6.6	0.92	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
2-Butanone (MEK)	ND	F1	33	2.4	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
2-Hexanone	ND	F1	33	3.3	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
4-Methyl-2-pentanone (MIBK)	ND	F1	33	2.2	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Acetone	ND	F1	33	5.6	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Benzene	ND	F1	6.6	0.32	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Bromodichloromethane	ND	F1	6.6	0.88	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Bromoform	ND	F1	6.6	3.3	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Bromomethane	ND		6.6	0.59	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Carbon disulfide	ND	F1	6.6	3.3	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Carbon tetrachloride	ND	F1	6.6	0.64	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Chlorobenzene	ND	F1	6.6	0.87	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Chloroethane	ND		6.6	1.5	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Chloroform	ND	F1	6.6	0.41	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Chloromethane	ND		6.6	0.40	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
cis-1,2-Dichloroethene	ND	F1	6.6	0.84	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
cis-1,3-Dichloropropene	ND	F1	6.6	0.95	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Cyclohexane	ND	F1	6.6	0.92	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Dibromochloromethane	ND	F1	6.6	0.84	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Dichlorodifluoromethane	ND		6.6	0.54	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Ethylbenzene	ND	F1	6.6	0.46	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Isopropylbenzene	ND	F1	6.6	0.99	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Methyl acetate	ND		33	4.0	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Methyl tert-butyl ether	ND		6.6	0.65	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Methylcyclohexane	ND	F1	6.6	1.0	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Methylene Chloride	ND		6.6	3.0	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Styrene	ND	F1	6.6	0.33	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Tetrachloroethene	ND	F1	6.6	0.89	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Toluene	ND	F1	6.6	0.50	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
trans-1,2-Dichloroethene	ND		6.6	0.68	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
trans-1,3-Dichloropropene	ND	F1	6.6	2.9	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Trichloroethene	ND	F1	6.6	1.5	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Trichlorofluoromethane	ND		6.6	0.62	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Vinyl chloride	ND		6.6	0.80	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1
Xylenes, Total	ND	F1	13	1.1	ug/Kg	☼	09/17/21 16:07	09/20/21 21:19	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-3
Date Collected: 09/17/21 10:00
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-6
Matrix: Solid
Percent Solids: 75.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*09/17/21 16:07*	*09/20/21 21:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*09/17/21 16:07*	*09/20/21 21:19*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*09/17/21 16:07*	*09/20/21 21:19*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*09/17/21 16:07*	*09/20/21 21:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		13000	7200	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2,4,5-Trichlorophenol	ND		22000	6000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2,4,6-Trichlorophenol	ND		22000	4400	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2,4-Dichlorophenol	ND		22000	2300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2,4-Dimethylphenol	ND		22000	5300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2,4-Dinitrophenol	ND		220000	100000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2,4-Dinitrotoluene	ND		22000	4600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2,6-Dinitrotoluene	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2-Chloronaphthalene	ND		22000	3700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2-Chlorophenol	ND		43000	4000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2-Methylnaphthalene	ND		22000	4400	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2-Methylphenol	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2-Nitroaniline	ND		43000	3300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
2-Nitrophenol	ND		22000	6300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
3,3'-Dichlorobenzidine	ND		43000	26000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
3-Nitroaniline	ND		43000	6100	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4,6-Dinitro-2-methylphenol	ND		43000	22000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4-Bromophenyl phenyl ether	ND		22000	3100	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4-Chloro-3-methylphenol	ND		22000	5500	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4-Chloroaniline	ND		22000	5500	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4-Chlorophenyl phenyl ether	ND		22000	2700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4-Methylphenol	ND		43000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4-Nitroaniline	ND		43000	12000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
4-Nitrophenol	ND		43000	16000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Acenaphthene	ND		22000	3300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Acenaphthylene	ND		22000	2900	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Acetophenone	ND		22000	3000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Anthracene	ND		22000	5500	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Atrazine	ND		22000	7700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Benzaldehyde	ND		22000	18000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Benzo[a]anthracene	ND		22000	2200	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Benzo[a]pyrene	ND		22000	3300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Benzo[b]fluoranthene	**4500**	**J F2**	22000	3500	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Benzo[g,h,i]perylene	**3200**	**J F2 F1**	22000	2300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Benzo[k]fluoranthene	ND		22000	2900	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Biphenyl	ND		22000	3300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
bis (2-chloroisopropyl) ether	ND		22000	4400	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Bis(2-chloroethoxy)methane	ND		22000	4700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Bis(2-chloroethyl)ether	ND		22000	2900	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Bis(2-ethylhexyl) phthalate	ND		22000	7600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Butyl benzyl phthalate	ND		22000	3700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Caprolactam	ND		22000	6700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Carbazole	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10

Client Sample ID: SED-3
Lab Sample ID: 480-189753-6
Date Collected: 09/17/21 10:00
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		22000	5000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Dibenz(a,h)anthracene	ND		22000	3900	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Dibenzofuran	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Diethyl phthalate	ND		22000	2900	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Dimethyl phthalate	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Di-n-butyl phthalate	ND		22000	3800	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Di-n-octyl phthalate	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Fluoranthene	ND		22000	2300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Fluorene	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Hexachlorobenzene	ND		22000	3000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Hexachlorobutadiene	ND		22000	3300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Hexachlorocyclopentadiene	ND		22000	3000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Hexachloroethane	ND		22000	2900	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Indeno[1,2,3-cd]pyrene	ND		22000	2700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Isophorone	ND		22000	4700	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Naphthalene	ND		22000	2900	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Nitrobenzene	ND		22000	2500	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
N-Nitrosodi-n-propylamine	ND		22000	3800	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
N-Nitrosodiphenylamine	ND		22000	18000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Pentachlorophenol	ND		43000	22000	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Phenanthrene	ND		22000	3300	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Phenol	ND		22000	3400	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10
Pyrene	ND		22000	2600	ug/Kg	☼	09/21/21 14:57	09/22/21 23:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*54 - 120*	*09/21/21 14:57*	*09/22/21 23:42*	*10*
2-Fluorobiphenyl	*89*		*60 - 120*	*09/21/21 14:57*	*09/22/21 23:42*	*10*
2-Fluorophenol	*0*	*S1-*	*52 - 120*	*09/21/21 14:57*	*09/22/21 23:42*	*10*
Nitrobenzene-d5	*0*	*S1-*	*53 - 120*	*09/21/21 14:57*	*09/22/21 23:42*	*10*
Phenol-d5	*0*	*S1-*	*54 - 120*	*09/21/21 14:57*	*09/22/21 23:42*	*10*
p-Terphenyl-d14	*0*	*S1-*	*79 - 130*	*09/21/21 14:57*	*09/22/21 23:42*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	110	21	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
4,4'-DDE	ND		110	23	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
4,4'-DDT	ND		110	26	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Aldrin	ND		110	27	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
alpha-BHC	ND	F1	110	20	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
beta-BHC	ND	F1	110	20	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
cis-Chlordane	ND		110	55	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
delta-BHC	ND	F1	110	21	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Dieldrin	ND		110	26	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Endosulfan I	ND	F1	110	21	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Endosulfan II	ND	F1	110	20	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Endosulfan sulfate	ND	F1	110	21	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Endrin	ND		110	22	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Endrin aldehyde	ND		110	28	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Endrin ketone	ND		110	27	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
gamma-BHC (Lindane)	ND	F1	110	20	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-3
Date Collected: 09/17/21 10:00
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-6
Matrix: Solid
Percent Solids: 75.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		110	24	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Heptachlor epoxide	ND		110	28	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Methoxychlor	ND		110	22	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
Toxaphene	ND		1100	640	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50
trans-Chlordane	ND		110	35	ug/Kg	☼	09/24/21 08:13	09/27/21 12:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*09/24/21 08:13*	*09/27/21 12:27*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*09/24/21 08:13*	*09/27/21 12:27*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*09/24/21 08:13*	*09/27/21 12:27*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*09/24/21 08:13*	*09/27/21 12:27*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	09/23/21 07:21	09/23/21 20:07	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	09/23/21 07:21	09/23/21 20:07	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	09/23/21 07:21	09/23/21 20:07	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	09/23/21 07:21	09/23/21 20:07	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	09/23/21 07:21	09/23/21 20:07	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	09/23/21 07:21	09/23/21 20:07	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	09/23/21 07:21	09/23/21 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*60 - 154*	*09/23/21 07:21*	*09/23/21 20:07*	*1*
Tetrachloro-m-xylene	*93*		*60 - 154*	*09/23/21 07:21*	*09/23/21 20:07*	*1*
DCB Decachlorobiphenyl	*91*		*65 - 174*	*09/23/21 07:21*	*09/23/21 20:07*	*1*
DCB Decachlorobiphenyl	*76*		*65 - 174*	*09/23/21 07:21*	*09/23/21 20:07*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		22	7.0	ug/Kg	☼	09/20/21 07:12	09/21/21 21:19	1
2,4-D	ND		22	14	ug/Kg	☼	09/20/21 07:12	09/21/21 21:19	1
Silvex (2,4,5-TP)	ND		22	7.9	ug/Kg	☼	09/20/21 07:12	09/21/21 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*09/20/21 07:12*	*09/21/21 21:19*	*1*
2,4-Dichlorophenylacetic acid	*65*		*28 - 129*	*09/20/21 07:12*	*09/21/21 21:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8630**	**F1**	12.8	5.6	mg/Kg	☼	09/20/21 17:10	09/23/21 01:04	1
Antimony	ND	F1	19.2	0.51	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Arsenic	**6.6**		2.6	0.51	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Barium	**67.1**	**F1**	0.64	0.14	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Beryllium	**0.99**		0.26	0.036	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Cadmium	**0.55**		0.26	0.038	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Calcium	**90200**	**B**	63.9	4.2	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Chromium	**24.7**		0.64	0.26	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Cobalt	**5.3**		0.64	0.064	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Copper	**28.5**		1.3	0.27	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Iron	**20500**	**^+**	12.8	4.5	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-3
Date Collected: 09/17/21 10:00
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-6
Matrix: Solid
Percent Solids: 75.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	42.2		1.3	0.31	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Magnesium	13200		25.6	1.2	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Manganese	479		0.26	0.041	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Nickel	31.5		6.4	0.29	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Potassium	1950	F1	38.4	25.6	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Selenium	ND		5.1	0.51	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Silver	ND		0.77	0.26	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Sodium	271	B	179	16.6	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Thallium	ND		7.7	0.38	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Vanadium	24.5		0.64	0.14	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1
Zinc	159	F1 F2	2.6	0.82	mg/Kg	☼	09/20/21 17:10	09/21/21 22:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.027	0.0061	mg/Kg	☼	09/24/21 14:07	09/24/21 15:52	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: BD SED
Date Collected: 09/17/21 10:20
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-7
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,1,2-Trichloroethane	ND		5.1	0.67	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,1-Dichloroethane	ND		5.1	0.63	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,1-Dichloroethene	ND		5.1	0.63	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,2-Dibromoethane	ND		5.1	0.66	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,2-Dichlorobenzene	ND		5.1	0.40	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,2-Dichloroethane	ND		5.1	0.26	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,2-Dichloropropane	ND		5.1	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
1,4-Dichlorobenzene	ND		5.1	0.72	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Acetone	ND		26	4.3	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Benzene	ND		5.1	0.25	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Bromodichloromethane	ND		5.1	0.69	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Bromoform	ND		5.1	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Bromomethane	ND		5.1	0.46	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Carbon disulfide	ND		5.1	2.6	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Carbon tetrachloride	ND		5.1	0.50	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Chlorobenzene	ND		5.1	0.68	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Chloroethane	ND		5.1	1.2	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Chloroform	**0.65**	**J**	5.1	0.32	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Chloromethane	ND		5.1	0.31	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
cis-1,2-Dichloroethene	ND		5.1	0.66	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
cis-1,3-Dichloropropene	ND		5.1	0.74	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Cyclohexane	ND		5.1	0.72	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Dibromochloromethane	ND		5.1	0.66	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Ethylbenzene	ND		5.1	0.35	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Isopropylbenzene	ND		5.1	0.77	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Methyl acetate	ND		26	3.1	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Methylcyclohexane	ND		5.1	0.78	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Methylene Chloride	ND		5.1	2.4	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Styrene	ND		5.1	0.26	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Tetrachloroethene	ND		5.1	0.69	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Toluene	ND		5.1	0.39	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
trans-1,3-Dichloropropene	ND		5.1	2.3	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Trichloroethene	ND		5.1	1.1	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Trichlorofluoromethane	ND		5.1	0.49	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Vinyl chloride	ND		5.1	0.63	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1
Xylenes, Total	ND		10	0.86	ug/Kg	☼	09/17/21 16:07	09/20/21 21:42	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: BD SED
Date Collected: 09/17/21 10:20
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-7
Matrix: Solid
Percent Solids: 82.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*09/17/21 16:07*	*09/20/21 21:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*09/17/21 16:07*	*09/20/21 21:42*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*09/17/21 16:07*	*09/20/21 21:42*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*09/17/21 16:07*	*09/20/21 21:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	66	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2-Chlorophenol	ND		400	37	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2-Methylphenol	ND		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
2-Nitrophenol	ND		200	58	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
3-Nitroaniline	ND		400	56	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4-Methylphenol	ND		400	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Acenaphthene	ND		200	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Acenaphthylene	ND		200	26	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Acetophenone	ND		200	28	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Anthracene	ND		200	50	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Atrazine	ND		200	71	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Benzaldehyde	ND		200	160	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Benzo[a]anthracene	**190**	**J**	200	20	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Benzo[a]pyrene	**210**		200	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Benzo[b]fluoranthene	**290**		200	32	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Benzo[g,h,i]perylene	**220**		200	22	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Benzo[k]fluoranthene	**130**	**J**	200	26	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Biphenyl	ND		200	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Bis(2-ethylhexyl) phthalate	ND		200	70	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Caprolactam	ND		200	61	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Carbazole	ND		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: BD SED
Date Collected: 09/17/21 10:20
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-7
Matrix: Solid
Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**270**		200	46	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Dibenz(a,h)anthracene	**55**	**J**	200	36	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Dibenzofuran	ND		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Fluoranthene	**600**		200	22	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Fluorene	ND		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Hexachloroethane	ND		200	26	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Indeno[1,2,3-cd]pyrene	**170**	**J**	200	25	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Isophorone	ND		200	43	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Naphthalene	ND		200	26	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Nitrobenzene	ND		200	23	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Phenanthrene	**270**		200	30	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Phenol	ND		200	31	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1
Pyrene	**510**		200	24	ug/Kg	☼	09/21/21 14:57	09/23/21 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*54 - 120*	*09/21/21 14:57*	*09/23/21 00:53*	*1*
2-Fluorobiphenyl	*87*		*60 - 120*	*09/21/21 14:57*	*09/23/21 00:53*	*1*
2-Fluorophenol	*64*		*52 - 120*	*09/21/21 14:57*	*09/23/21 00:53*	*1*
Nitrobenzene-d5	*73*		*53 - 120*	*09/21/21 14:57*	*09/23/21 00:53*	*1*
Phenol-d5	*76*		*54 - 120*	*09/21/21 14:57*	*09/23/21 00:53*	*1*
p-Terphenyl-d14	*99*		*79 - 130*	*09/21/21 14:57*	*09/23/21 00:53*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
4,4'-DDE	**1.0**	**J**	2.0	0.42	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
4,4'-DDT	**0.93**	**J**	2.0	0.47	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
cis-Chlordane	ND		2.0	1.0	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
delta-BHC	**0.82**	**J**	2.0	0.37	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Endrin	ND		2.0	0.40	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Endrin aldehyde	**1.1**	**J**	2.0	0.51	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Endrin ketone	**0.75**	**J**	2.0	0.49	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
gamma-BHC (Lindane)	**0.58**	**J**	2.0	0.37	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1

Client Sample ID: BD SED
Lab Sample ID: 480-189753-7
Date Collected: 09/17/21 10:20
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 82.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.44	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
Toxaphene	ND		20	12	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1
trans-Chlordane	**3.0**		2.0	0.64	ug/Kg	☼	09/24/21 08:13	09/27/21 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*45 - 120*	*09/24/21 08:13*	*09/27/21 13:45*	*1*
DCB Decachlorobiphenyl	*130*	*S1+*	*45 - 120*	*09/24/21 08:13*	*09/27/21 13:45*	*1*
Tetrachloro-m-xylene	*90*		*30 - 124*	*09/24/21 08:13*	*09/27/21 13:45*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*09/24/21 08:13*	*09/27/21 13:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	☼	09/23/21 07:21	09/23/21 23:05	1
PCB-1221	ND		0.25	0.048	mg/Kg	☼	09/23/21 07:21	09/23/21 23:05	1
PCB-1232	ND		0.25	0.048	mg/Kg	☼	09/23/21 07:21	09/23/21 23:05	1
PCB-1242	ND		0.25	0.048	mg/Kg	☼	09/23/21 07:21	09/23/21 23:05	1
PCB-1248	ND		0.25	0.048	mg/Kg	☼	09/23/21 07:21	09/23/21 23:05	1
PCB-1254	ND		0.25	0.11	mg/Kg	☼	09/23/21 07:21	09/23/21 23:05	1
PCB-1260	ND		0.25	0.11	mg/Kg	☼	09/23/21 07:21	09/23/21 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*139*		*60 - 154*	*09/23/21 07:21*	*09/23/21 23:05*	*1*
Tetrachloro-m-xylene	*138*		*60 - 154*	*09/23/21 07:21*	*09/23/21 23:05*	*1*
DCB Decachlorobiphenyl	*174*		*65 - 174*	*09/23/21 07:21*	*09/23/21 23:05*	*1*
DCB Decachlorobiphenyl	*141*		*65 - 174*	*09/23/21 07:21*	*09/23/21 23:05*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.4	ug/Kg	☼	09/20/21 07:12	09/22/21 00:17	1
2,4-D	ND		20	13	ug/Kg	☼	09/20/21 07:12	09/22/21 00:17	1
Silvex (2,4,5-TP)	ND		20	7.2	ug/Kg	☼	09/20/21 07:12	09/22/21 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*	*09/20/21 07:12*	*09/22/21 00:17*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*09/20/21 07:12*	*09/22/21 00:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15400**		12.7	5.6	mg/Kg	☼	09/20/21 17:10	09/23/21 01:33	1
Antimony	ND		19.0	0.51	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Arsenic	**7.9**		2.5	0.51	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Barium	**63.4**		0.63	0.14	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Beryllium	**0.84**		0.25	0.036	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Cadmium	**0.25**		0.25	0.038	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Calcium	**41400**	**B**	63.4	4.2	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Chromium	**27.2**		0.63	0.25	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Cobalt	**19.9**		0.63	0.063	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Copper	**29.9**		1.3	0.27	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Iron	**30300**		12.7	4.4	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: BD SED
Date Collected: 09/17/21 10:20
Date Received: 09/17/21 13:27

Lab Sample ID: 480-189753-7
Matrix: Solid
Percent Solids: 82.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11.8		1.3	0.30	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Magnesium	6790		25.4	1.2	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Manganese	748		0.25	0.041	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Nickel	49.1		6.3	0.29	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Potassium	2920		38.1	25.4	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Selenium	0.81	J	5.1	0.51	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Silver	ND		0.76	0.25	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Sodium	161	J B	178	16.5	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Thallium	ND		7.6	0.38	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Vanadium	25.2		0.63	0.14	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1
Zinc	75.9		2.5	0.81	mg/Kg	☼	09/20/21 17:10	09/21/21 23:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.025	0.0058	mg/Kg	☼	09/24/21 14:07	09/24/21 15:57	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-189753-4	SED-1	103	97	110	97
480-189753-5	SED-2	104	99	108	95
480-189753-6	SED-3	106	100	110	97
480-189753-6 MS	SED-3	89	99	103	101
480-189753-6 MSD	SED-3	89	98	102	100
480-189753-7	BD SED	105	102	110	97
LCS 480-596895/1-A	Lab Control Sample	102	102	106	94
MB 480-596895/2-A	Method Blank	105	100	110	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-189753-1	SW-1	100	100	96	99
480-189753-1 MS	SW-1	103	102	98	102
480-189753-1 MSD	SW-1	99	99	98	94
480-189753-2	SW-2	99	102	99	94
480-189753-3	BD SW	103	102	96	102
LCS 480-597823/6	Lab Control Sample	101	104	99	101
MB 480-597823/8	Method Blank	104	105	99	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-189753-4	SED-1	84	60	53	50 S1-	56	88
480-189753-5	SED-2	86	78	63	66	72	93
480-189753-6	SED-3	0 S1-	89	0 S1-	0 S1-	0 S1-	0 S1-
480-189753-6 MS	SED-3	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
480-189753-6 MSD	SED-3	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
480-189753-7	BD SED	91	87	64	73	76	99
LCS 480-597244/2-A	Lab Control Sample	109	78	70	65	79	103
MB 480-597244/1-A	Method Blank	86	80	73	70	81	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(60-148)	(22-120)
480-189753-1	SW-1	102	95	60	95	91	43
480-189753-1 MS	SW-1	110	99	64	98	62	48
480-189753-1 MSD	SW-1	117	92	59	85	66	47
480-189753-2	SW-2	96	88	57	90	82	43
480-189753-3	BD SW	112	96	61	91	85	47
LCS 480-597023/2-A	Lab Control Sample	102	87	57	86	93	47
MB 480-597023/1-A	Method Blank	98	98	63	94	100	50

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-189753-4	SED-1	0 S1-	0 S1-	175 S1+	133 S1+
480-189753-5	SED-2	74	119	109	88
480-189753-6	SED-3	0 S1-	0 S1-	0 S1-	0 S1-
480-189753-6 MS	SED-3	0 S1-	0 S1-	0 S1-	0 S1-
480-189753-6 MSD	SED-3	0 S1-	0 S1-	0 S1-	0 S1-
480-189753-7	BD SED	78	130 S1+	90	73
LCS 480-597724/2-A	Lab Control Sample	78	90	84	66
MB 480-597724/1-A	Method Blank	67	96	76	63

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-189753-1	SW-1	40	46	96	68
480-189753-1 MS	SW-1	33	43	84	68
480-189753-1 MSD	SW-1	44	47	84	73
480-189753-2	SW-2	39	47	90	80
480-189753-3	BD SW	36	46	85	69

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCBP1 (20-120)	DCBP2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
LCS 480-597330/2-A	Lab Control Sample	46	56	81	99
MB 480-597330/1-A	Method Blank	48	53	92	72

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-189753-4	SED-1	116	118	110	130
480-189753-5	SED-2	117	125	118	143
480-189753-6	SED-3	93	94	76	91
480-189753-6 MS	SED-3	108	113	112	133
480-189753-6 MSD	SED-3	109	105	112	135
480-189753-7	BD SED	138	139	141	174
LCS 480-597499/2-A	Lab Control Sample	140	145	155	176 S1+
MB 480-597499/1-A	Method Blank	97	97	108	124

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCBP1 (19-120)	DCBP2 (19-120)	TCX1 (39-121)	TCX2 (39-121)
480-189753-1	SW-1	56	68	98	101
480-189753-1 MS	SW-1	42	50	76	75
480-189753-1 MSD	SW-1	51	60	91	93
480-189753-2	SW-2	70	88	103	106
480-189753-3	BD SW	68	86	111	112
LCS 480-597143/2-A	Lab Control Sample	51	61	77	74
MB 480-597143/1-A	Method Blank	62	93	73	80

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (28-129)	DCPAA2 (28-129)
480-189753-4	SED-1	71	76
480-189753-5	SED-2	69	68
480-189753-6	SED-3	73	65

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189753-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method: 8151A - Herbicides (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (28-129)	DCPAA2 (28-129)								
480-189753-6 MS	SED-3	69	75								
480-189753-6 MSD	SED-3	73	93								
480-189753-7	BD SED	76	74								
LCS 480-597006/2-A	Lab Control Sample	64	82								
MB 480-597006/1-A	Method Blank	68	67								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (48-132)	DCPAA2 (48-132)								
480-189753-1	SW-1	69	77								
480-189753-1 MS	SW-1	66	94								
480-189753-1 MSD	SW-1	33 S1-	42 S1-								
480-189753-2	SW-2	89	73								
480-189753-3	BD SW	71	85								
LCS 480-597146/2-A	Lab Control Sample	94	85								
MB 480-597146/1-A	Method Blank	79	65								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 480-596895/2-A
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
2-Hexanone	ND		25	2.5	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Acetone	ND		25	4.2	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Benzene	ND		5.0	0.25	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Bromoform	ND		5.0	2.5	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Chloroform	ND		5.0	0.31	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Methyl acetate	ND		25	3.0	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Styrene	ND		5.0	0.25	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Toluene	ND		5.0	0.38	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/17/21 16:07	09/20/21 19:55	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/17/21 16:07	09/20/21 19:55	1

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

Lab Sample ID: MB 480-596895/2-A
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596895

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*09/17/21 16:07*	*09/20/21 19:55*	*1*
Toluene-d8 (Surr)	*97*		*71 - 125*	*09/17/21 16:07*	*09/20/21 19:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*09/17/21 16:07*	*09/20/21 19:55*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*09/17/21 16:07*	*09/20/21 19:55*	*1*

Lab Sample ID: LCS 480-596895/1-A
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	55.1		ug/Kg		110	77 - 121
1,1,2,2-Tetrachloroethane	50.0	44.4		ug/Kg		89	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.5		ug/Kg		83	60 - 140
1,1,2-Trichloroethane	50.0	48.5		ug/Kg		97	78 - 122
1,1-Dichloroethane	50.0	51.5		ug/Kg		103	73 - 126
1,1-Dichloroethene	50.0	51.0		ug/Kg		102	59 - 125
1,2,4-Trichlorobenzene	50.0	47.2		ug/Kg		94	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	49.0		ug/Kg		98	63 - 124
1,2-Dibromoethane	50.0	49.6		ug/Kg		99	78 - 120
1,2-Dichlorobenzene	50.0	49.3		ug/Kg		99	75 - 120
1,2-Dichloroethane	50.0	56.0		ug/Kg		112	77 - 122
1,2-Dichloropropane	50.0	49.7		ug/Kg		99	75 - 124
1,3-Dichlorobenzene	50.0	48.9		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	49.5		ug/Kg		99	73 - 120
2-Butanone (MEK)	250	235		ug/Kg		94	70 - 134
2-Hexanone	250	225		ug/Kg		90	59 - 130
4-Methyl-2-pentanone (MIBK)	250	225		ug/Kg		90	65 - 133
Acetone	250	246		ug/Kg		99	61 - 137
Benzene	50.0	51.5		ug/Kg		103	79 - 127
Bromodichloromethane	50.0	56.1		ug/Kg		112	80 - 122
Bromoform	50.0	54.9		ug/Kg		110	68 - 126
Bromomethane	50.0	59.5		ug/Kg		119	37 - 149
Carbon disulfide	50.0	48.9		ug/Kg		98	64 - 131
Carbon tetrachloride	50.0	56.8		ug/Kg		114	75 - 135
Chlorobenzene	50.0	49.6		ug/Kg		99	76 - 124
Chloroethane	50.0	55.6		ug/Kg		111	69 - 135
Chloroform	50.0	53.0		ug/Kg		106	80 - 120
Chloromethane	50.0	50.1		ug/Kg		100	63 - 127
cis-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	81 - 120
cis-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	80 - 120
Cyclohexane	50.0	45.1		ug/Kg		90	65 - 120
Dibromochloromethane	50.0	52.7		ug/Kg		105	76 - 125
Dichlorodifluoromethane	50.0	51.2		ug/Kg		102	57 - 142
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 120
Isopropylbenzene	50.0	47.4		ug/Kg		95	72 - 120
Methyl acetate	100	92.0		ug/Kg		92	55 - 136
Methyl tert-butyl ether	50.0	51.8		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	50.6		ug/Kg		101	60 - 140

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

Lab Sample ID: LCS 480-596895/1-A
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596895

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			50.0	52.1		ug/Kg		104	61 - 127		
Styrene			50.0	50.1		ug/Kg		100	80 - 120		
Tetrachloroethene			50.0	50.4		ug/Kg		101	74 - 122		
Toluene			50.0	48.5		ug/Kg		97	74 - 128		
trans-1,2-Dichloroethene			50.0	51.6		ug/Kg		103	78 - 126		
trans-1,3-Dichloropropene			50.0	50.2		ug/Kg		100	73 - 123		
Trichloroethene			50.0	53.0		ug/Kg		106	77 - 129		
Trichlorofluoromethane			50.0	61.2		ug/Kg		122	65 - 146		
Vinyl chloride			50.0	54.4		ug/Kg		109	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*
Toluene-d8 (Surr)	*94*		*71 - 125*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 596895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND	F1	59.8	45.3	F1	ug/Kg	☼	76	77 - 121		
1,1,2,2-Tetrachloroethane	ND	F1	59.8	31.2	F1	ug/Kg	☼	52	80 - 120		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	59.8	29.6	F1	ug/Kg	☼	49	60 - 140		
1,1,2-Trichloroethane	ND	F1	59.8	37.5	F1	ug/Kg	☼	63	78 - 122		
1,1-Dichloroethane	ND		59.8	47.1		ug/Kg	☼	79	73 - 126		
1,1-Dichloroethene	ND		59.8	44.0		ug/Kg	☼	74	59 - 125		
1,2,4-Trichlorobenzene	ND	F2 F1	59.8	8.15	F1	ug/Kg	☼	14	64 - 120		
1,2-Dibromo-3-Chloropropane	ND	F1	59.8	27.1	F1	ug/Kg	☼	45	63 - 124		
1,2-Dibromoethane	ND	F1	59.8	35.1	F1	ug/Kg	☼	59	78 - 120		
1,2-Dichlorobenzene	ND	F1	59.8	19.3	F1	ug/Kg	☼	32	75 - 120		
1,2-Dichloroethane	ND		59.8	46.3		ug/Kg	☼	77	77 - 122		
1,2-Dichloropropane	ND	F1	59.8	43.2	F1	ug/Kg	☼	72	75 - 124		
1,3-Dichlorobenzene	ND	F1	59.8	19.1	F1	ug/Kg	☼	32	74 - 120		
1,4-Dichlorobenzene	ND	F1	59.8	19.7	F1	ug/Kg	☼	33	73 - 120		
2-Butanone (MEK)	ND	F1	299	163	F1	ug/Kg	☼	55	70 - 134		
2-Hexanone	ND	F1	299	148	F1	ug/Kg	☼	50	59 - 130		
4-Methyl-2-pentanone (MIBK)	ND	F1	299	161	F1	ug/Kg	☼	54	65 - 133		
Acetone	ND	F1	299	173	F1	ug/Kg	☼	58	61 - 137		
Benzene	ND	F1	59.8	44.1	F1	ug/Kg	☼	74	79 - 127		
Bromodichloromethane	ND	F1	59.8	44.7	F1	ug/Kg	☼	75	80 - 122		
Bromoform	ND	F1	59.8	33.5	F1	ug/Kg	☼	56	68 - 126		
Bromomethane	ND		59.8	59.1		ug/Kg	☼	99	37 - 149		
Carbon disulfide	ND	F1	59.8	37.8	F1	ug/Kg	☼	63	64 - 131		
Carbon tetrachloride	ND	F1	59.8	40.7	F1	ug/Kg	☼	68	75 - 135		
Chlorobenzene	ND	F1	59.8	32.5	F1	ug/Kg	☼	54	76 - 124		
Chloroethane	ND		59.8	54.1		ug/Kg	☼	91	69 - 135		
Chloroform	ND	F1	59.8	47.5	F1	ug/Kg	☼	79	80 - 120		

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

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 596895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		59.8	49.8		ug/Kg	☼	83	63 - 127
cis-1,2-Dichloroethene	ND	F1	59.8	46.4	F1	ug/Kg	☼	78	80 - 120
cis-1,3-Dichloropropene	ND	F1	59.8	39.5	F1	ug/Kg	☼	66	80 - 120
Cyclohexane	ND	F1	59.8	21.0	F1	ug/Kg	☼	35	65 - 120
Dibromochloromethane	ND	F1	59.8	38.6	F1	ug/Kg	☼	65	76 - 125
Dichlorodifluoromethane	ND		59.8	49.1		ug/Kg	☼	82	57 - 142
Ethylbenzene	ND	F1	59.8	28.7	F1	ug/Kg	☼	48	80 - 120
Isopropylbenzene	ND	F1	59.8	22.4	F1	ug/Kg	☼	38	72 - 120
Methyl acetate	ND		120	82.9		ug/Kg	☼	69	55 - 136
Methyl tert-butyl ether	ND		59.8	42.3		ug/Kg	☼	71	63 - 125
Methylcyclohexane	ND	F1	59.8	14.4	F1	ug/Kg	☼	24	60 - 140
Methylene Chloride	ND		59.8	47.8		ug/Kg	☼	80	61 - 127
Styrene	ND	F1	59.8	29.3	F1	ug/Kg	☼	49	80 - 120
Tetrachloroethene	ND	F1	59.8	27.0	F1	ug/Kg	☼	45	74 - 122
Toluene	ND	F1	59.8	37.4	F1	ug/Kg	☼	63	74 - 128
trans-1,2-Dichloroethene	ND		59.8	46.3		ug/Kg	☼	78	78 - 126
trans-1,3-Dichloropropene	ND	F1	59.8	36.8	F1	ug/Kg	☼	62	73 - 123
Trichloroethene	ND	F1	59.8	39.8	F1	ug/Kg	☼	67	77 - 129
Trichlorofluoromethane	ND		59.8	47.8		ug/Kg	☼	80	65 - 146
Vinyl chloride	ND		59.8	53.0		ug/Kg	☼	89	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*101*		*71 - 125*

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 596895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	66.0	50.8		ug/Kg	☼	77	77 - 121	11	30
1,1,2,2-Tetrachloroethane	ND	F1	66.0	37.4	F1	ug/Kg	☼	57	80 - 120	18	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	66.0	35.4	F1	ug/Kg	☼	54	60 - 140	18	30
1,1,2-Trichloroethane	ND	F1	66.0	43.3	F1	ug/Kg	☼	66	78 - 122	14	30
1,1-Dichloroethane	ND		66.0	52.7		ug/Kg	☼	80	73 - 126	11	30
1,1-Dichloroethene	ND		66.0	49.5		ug/Kg	☼	75	59 - 125	12	30
1,2,4-Trichlorobenzene	ND	F2 F1	66.0	11.5	F2 F1	ug/Kg	☼	17	64 - 120	34	30
1,2-Dibromo-3-Chloropropane	ND	F1	66.0	35.1	F1	ug/Kg	☼	53	63 - 124	26	30
1,2-Dibromoethane	ND	F1	66.0	41.5	F1	ug/Kg	☼	63	78 - 120	17	30
1,2-Dichlorobenzene	ND	F1	66.0	24.8	F1	ug/Kg	☼	38	75 - 120	25	30
1,2-Dichloroethane	ND		66.0	52.3		ug/Kg	☼	79	77 - 122	12	30
1,2-Dichloropropane	ND	F1	66.0	48.8	F1	ug/Kg	☼	74	75 - 124	12	30
1,3-Dichlorobenzene	ND	F1	66.0	24.1	F1	ug/Kg	☼	36	74 - 120	23	30
1,4-Dichlorobenzene	ND	F1	66.0	25.0	F1	ug/Kg	☼	38	73 - 120	23	30
2-Butanone (MEK)	ND	F1	330	183	F1	ug/Kg	☼	56	70 - 134	12	30
2-Hexanone	ND	F1	330	163	F1	ug/Kg	☼	49	59 - 130	10	30

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

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597102

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 596895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND	F1	330	182	F1	ug/Kg	☼	55	65 - 133	12	30
Acetone	ND	F1	330	203		ug/Kg	☼	61	61 - 137	16	30
Benzene	ND	F1	66.0	50.2	F1	ug/Kg	☼	76	79 - 127	13	30
Bromodichloromethane	ND	F1	66.0	51.8	F1	ug/Kg	☼	79	80 - 122	15	30
Bromoform	ND	F1	66.0	39.5	F1	ug/Kg	☼	60	68 - 126	17	30
Bromomethane	ND		66.0	63.8		ug/Kg	☼	97	37 - 149	8	30
Carbon disulfide	ND	F1	66.0	43.6		ug/Kg	☼	66	64 - 131	14	30
Carbon tetrachloride	ND	F1	66.0	46.4	F1	ug/Kg	☼	70	75 - 135	13	30
Chlorobenzene	ND	F1	66.0	38.3	F1	ug/Kg	☼	58	76 - 124	16	30
Chloroethane	ND		66.0	58.8		ug/Kg	☼	89	69 - 135	8	30
Chloroform	ND	F1	66.0	52.7		ug/Kg	☼	80	80 - 120	11	30
Chloromethane	ND		66.0	54.8		ug/Kg	☼	83	63 - 127	10	30
cis-1,2-Dichloroethene	ND	F1	66.0	51.1	F1	ug/Kg	☼	77	80 - 120	10	30
cis-1,3-Dichloropropene	ND	F1	66.0	45.1	F1	ug/Kg	☼	68	80 - 120	13	30
Cyclohexane	ND	F1	66.0	25.0	F1	ug/Kg	☼	38	65 - 120	18	30
Dibromochloromethane	ND	F1	66.0	44.9	F1	ug/Kg	☼	68	76 - 125	15	30
Dichlorodifluoromethane	ND		66.0	55.2		ug/Kg	☼	84	57 - 142	12	30
Ethylbenzene	ND	F1	66.0	34.6	F1	ug/Kg	☼	52	80 - 120	19	30
Isopropylbenzene	ND	F1	66.0	27.5	F1	ug/Kg	☼	42	72 - 120	20	30
Methyl acetate	ND		132	100		ug/Kg	☼	76	55 - 136	19	30
Methyl tert-butyl ether	ND		66.0	49.3		ug/Kg	☼	75	63 - 125	15	30
Methylcyclohexane	ND	F1	66.0	17.1	F1	ug/Kg	☼	26	60 - 140	17	30
Methylene Chloride	ND		66.0	53.2		ug/Kg	☼	81	61 - 127	11	30
Styrene	ND	F1	66.0	35.4	F1	ug/Kg	☼	54	80 - 120	19	30
Tetrachloroethene	ND	F1	66.0	32.3	F1	ug/Kg	☼	49	74 - 122	18	30
Toluene	ND	F1	66.0	43.2	F1	ug/Kg	☼	65	74 - 128	14	30
trans-1,2-Dichloroethene	ND		66.0	51.9		ug/Kg	☼	79	78 - 126	11	30
trans-1,3-Dichloropropene	ND	F1	66.0	42.1	F1	ug/Kg	☼	64	73 - 123	13	30
Trichloroethene	ND	F1	66.0	46.5	F1	ug/Kg	☼	70	77 - 129	16	30
Trichlorofluoromethane	ND		66.0	55.7		ug/Kg	☼	84	65 - 146	15	30
Vinyl chloride	ND		66.0	58.5		ug/Kg	☼	89	61 - 133	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

Lab Sample ID: MB 480-597823/8
Matrix: Water
Analysis Batch: 597823

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/25/21 01:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/21 01:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/25/21 01:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/25/21 01:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/25/21 01:47	1

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

Lab Sample ID: MB 480-597823/8
Matrix: Water
Analysis Batch: 597823

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/25/21 01:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/25/21 01:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/25/21 01:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/25/21 01:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/25/21 01:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/25/21 01:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/25/21 01:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/25/21 01:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/25/21 01:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/25/21 01:47	1
2-Hexanone	ND		5.0	1.2	ug/L			09/25/21 01:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/25/21 01:47	1
Acetone	ND		10	3.0	ug/L			09/25/21 01:47	1
Benzene	ND		1.0	0.41	ug/L			09/25/21 01:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/25/21 01:47	1
Bromoform	ND		1.0	0.26	ug/L			09/25/21 01:47	1
Bromomethane	ND		1.0	0.69	ug/L			09/25/21 01:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/25/21 01:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/25/21 01:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/25/21 01:47	1
Chloroethane	ND		1.0	0.32	ug/L			09/25/21 01:47	1
Chloroform	ND		1.0	0.34	ug/L			09/25/21 01:47	1
Chloromethane	ND		1.0	0.35	ug/L			09/25/21 01:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/21 01:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/25/21 01:47	1
Cyclohexane	ND		1.0	0.18	ug/L			09/25/21 01:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/25/21 01:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/25/21 01:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/25/21 01:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/25/21 01:47	1
Methyl acetate	ND		2.5	1.3	ug/L			09/25/21 01:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/25/21 01:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/25/21 01:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/21 01:47	1
Styrene	ND		1.0	0.73	ug/L			09/25/21 01:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/21 01:47	1
Toluene	ND		1.0	0.51	ug/L			09/25/21 01:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/25/21 01:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/25/21 01:47	1
Trichloroethene	ND		1.0	0.46	ug/L			09/25/21 01:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/25/21 01:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/25/21 01:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/25/21 01:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/25/21 01:47*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/25/21 01:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/25/21 01:47*	*1*

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

Lab Sample ID: MB 480-597823/8
Matrix: Water
Analysis Batch: 597823

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		75 - 123		09/25/21 01:47	1

Lab Sample ID: LCS 480-597823/6
Matrix: Water
Analysis Batch: 597823

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	20.8		ug/L		83	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.8		ug/L		83	61 - 148
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	76 - 122
1,1-Dichloroethane	25.0	22.1		ug/L		88	77 - 120
1,1-Dichloroethene	25.0	18.9		ug/L		75	66 - 127
1,2,4-Trichlorobenzene	25.0	24.0		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.0		ug/L		84	56 - 134
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	22.3		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	22.7		ug/L		91	76 - 120
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	22.4		ug/L		90	80 - 120
2-Butanone (MEK)	125	124		ug/L		99	57 - 140
2-Hexanone	125	111		ug/L		89	65 - 127
4-Methyl-2-pentanone (MIBK)	125	114		ug/L		91	71 - 125
Acetone	125	140		ug/L		112	56 - 142
Benzene	25.0	22.3		ug/L		89	71 - 124
Bromodichloromethane	25.0	21.9		ug/L		88	80 - 122
Bromoform	25.0	19.5		ug/L		78	61 - 132
Bromomethane	25.0	21.6		ug/L		86	55 - 144
Carbon disulfide	25.0	18.9		ug/L		76	59 - 134
Carbon tetrachloride	25.0	19.9		ug/L		80	72 - 134
Chlorobenzene	25.0	23.1		ug/L		92	80 - 120
Chloroethane	25.0	22.1		ug/L		89	69 - 136
Chloroform	25.0	20.6		ug/L		82	73 - 127
Chloromethane	25.0	23.2		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	22.2		ug/L		89	74 - 124
Cyclohexane	25.0	21.6		ug/L		86	59 - 135
Dibromochloromethane	25.0	21.5		ug/L		86	75 - 125
Dichlorodifluoromethane	25.0	19.7		ug/L		79	59 - 135
Ethylbenzene	25.0	22.5		ug/L		90	77 - 123
Isopropylbenzene	25.0	23.4		ug/L		94	77 - 122
Methyl acetate	50.0	46.7		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	22.7		ug/L		91	77 - 120
Methylcyclohexane	25.0	21.2		ug/L		85	68 - 134
Methylene Chloride	25.0	22.2		ug/L		89	75 - 124
Styrene	25.0	22.5		ug/L		90	80 - 120
Tetrachloroethene	25.0	22.7		ug/L		91	74 - 122

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

Lab Sample ID: LCS 480-597823/6
Matrix: Water
Analysis Batch: 597823

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toluene			25.0	22.9		ug/L		91	80 - 122		
trans-1,2-Dichloroethene			25.0	20.7		ug/L		83	73 - 127		
trans-1,3-Dichloropropene			25.0	22.8		ug/L		91	80 - 120		
Trichloroethene			25.0	22.3		ug/L		89	74 - 123		
Trichlorofluoromethane			25.0	22.4		ug/L		90	62 - 150		
Vinyl chloride			25.0	23.5		ug/L		94	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597823

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND		25.0	26.4		ug/L		106	73 - 126		
1,1,2,2-Tetrachloroethane	ND		25.0	26.8		ug/L		107	76 - 120		
1,1,2-Trichloroethane	ND		25.0	25.6		ug/L		103	76 - 122		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.4		ug/L		110	61 - 148		
1,1-Dichloroethane	ND		25.0	26.0		ug/L		104	77 - 120		
1,1-Dichloroethene	ND		25.0	24.4		ug/L		98	66 - 127		
1,2,4-Trichlorobenzene	ND		25.0	27.0		ug/L		108	79 - 122		
1,2-Dibromo-3-Chloropropane	ND		25.0	25.9		ug/L		104	56 - 134		
1,2-Dibromoethane	ND		25.0	26.3		ug/L		105	77 - 120		
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	80 - 124		
1,2-Dichloroethane	ND		25.0	25.4		ug/L		102	75 - 120		
1,2-Dichloropropane	ND		25.0	25.8		ug/L		103	76 - 120		
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L		106	77 - 120		
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	78 - 124		
2-Hexanone	ND		125	126		ug/L		101	65 - 127		
2-Butanone (MEK)	ND		125	132		ug/L		106	57 - 140		
4-Methyl-2-pentanone (MIBK)	ND		125	128		ug/L		103	71 - 125		
Acetone	ND		125	131		ug/L		105	56 - 142		
Benzene	ND		25.0	26.3		ug/L		105	71 - 124		
Bromodichloromethane	1.6		25.0	27.3		ug/L		103	80 - 122		
Bromoform	ND		25.0	23.4		ug/L		94	61 - 132		
Bromomethane	ND		25.0	26.5		ug/L		106	55 - 144		
Carbon disulfide	ND		25.0	22.4		ug/L		90	59 - 134		
Carbon tetrachloride	ND		25.0	26.0		ug/L		104	72 - 134		
Chlorobenzene	ND		25.0	26.5		ug/L		106	80 - 120		
Dibromochloromethane	0.61	J	25.0	25.7		ug/L		101	75 - 125		
Chloroethane	ND		25.0	27.5		ug/L		110	69 - 136		
Chloroform	4.3		25.0	28.2		ug/L		96	73 - 127		
Chloromethane	ND		25.0	28.9		ug/L		116	68 - 124		
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	74 - 124		

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

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597823

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	ND		25.0	24.6		ug/L		98	74 - 124
Cyclohexane	ND		25.0	28.0		ug/L		112	59 - 135
Dichlorodifluoromethane	ND		25.0	24.7		ug/L		99	59 - 135
Ethylbenzene	ND		25.0	27.5		ug/L		110	77 - 123
Isopropylbenzene	ND		25.0	28.5		ug/L		114	77 - 122
Methyl acetate	ND		50.0	42.7		ug/L		85	74 - 133
Methyl tert-butyl ether	ND		25.0	25.0		ug/L		100	77 - 120
Methylcyclohexane	ND		25.0	27.6		ug/L		111	68 - 134
Methylene Chloride	ND		25.0	24.6		ug/L		98	75 - 124
Styrene	ND		25.0	26.3		ug/L		105	80 - 120
Tetrachloroethene	ND		25.0	28.3		ug/L		113	74 - 122
Toluene	ND		25.0	26.9		ug/L		107	80 - 122
trans-1,2-Dichloroethene	ND		25.0	25.4		ug/L		101	73 - 127
Trichloroethene	ND		25.0	27.2		ug/L		109	74 - 123
Trichlorofluoromethane	ND		25.0	28.4		ug/L		114	62 - 150
Vinyl chloride	ND		25.0	30.5		ug/L		122	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597823

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	25.1		ug/L		100	73 - 126	5	15
1,1,2,2-Tetrachloroethane	ND		25.0	25.7		ug/L		103	76 - 120	4	15
1,1,2-Trichloroethane	ND		25.0	24.5		ug/L		98	76 - 122	4	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.0		ug/L		100	61 - 148	9	20
1,1-Dichloroethane	ND		25.0	24.7		ug/L		99	77 - 120	5	20
1,1-Dichloroethene	ND		25.0	23.0		ug/L		92	66 - 127	6	16
1,2,4-Trichlorobenzene	ND		25.0	24.8		ug/L		99	79 - 122	9	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.2		ug/L		97	56 - 134	7	15
1,2-Dibromoethane	ND		25.0	25.2		ug/L		101	77 - 120	4	15
1,2-Dichlorobenzene	ND		25.0	24.6		ug/L		98	80 - 124	8	20
1,2-Dichloroethane	ND		25.0	24.5		ug/L		98	75 - 120	3	20
1,2-Dichloropropane	ND		25.0	26.5		ug/L		106	76 - 120	3	20
1,3-Dichlorobenzene	ND		25.0	25.7		ug/L		103	77 - 120	3	20
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	78 - 124	3	20
2-Hexanone	ND		125	132		ug/L		105	65 - 127	4	15
2-Butanone (MEK)	ND		125	140		ug/L		112	57 - 140	6	20
4-Methyl-2-pentanone (MIBK)	ND		125	123		ug/L		98	71 - 125	4	35
Acetone	ND		125	130		ug/L		104	56 - 142	0	15
Benzene	ND		25.0	25.9		ug/L		103	71 - 124	2	13
Bromodichloromethane	1.6		25.0	27.3		ug/L		103	80 - 122	0	15

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

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597823

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		25.0	22.2		ug/L		89	61 - 132	5	15
Bromomethane	ND		25.0	24.7		ug/L		99	55 - 144	7	15
Carbon disulfide	ND		25.0	20.9		ug/L		84	59 - 134	7	15
Carbon tetrachloride	ND		25.0	25.0		ug/L		100	72 - 134	4	15
Chlorobenzene	ND		25.0	25.2		ug/L		101	80 - 120	5	25
Dibromochloromethane	0.61	J	25.0	24.2		ug/L		94	75 - 125	6	15
Chloroethane	ND		25.0	26.5		ug/L		106	69 - 136	4	15
Chloroform	4.3		25.0	26.1		ug/L		87	73 - 127	8	20
Chloromethane	ND		25.0	27.3		ug/L		109	68 - 124	6	15
cis-1,2-Dichloroethene	ND		25.0	23.8		ug/L		95	74 - 124	7	15
cis-1,3-Dichloropropene	ND		25.0	25.1		ug/L		100	74 - 124	2	15
Cyclohexane	ND		25.0	26.1		ug/L		104	59 - 135	7	20
Dichlorodifluoromethane	ND		25.0	23.3		ug/L		93	59 - 135	6	20
Ethylbenzene	ND		25.0	25.7		ug/L		103	77 - 123	7	15
Isopropylbenzene	ND		25.0	26.5		ug/L		106	77 - 122	7	20
Methyl acetate	ND		50.0	40.4		ug/L		81	74 - 133	6	20
Methyl tert-butyl ether	ND		25.0	23.3		ug/L		93	77 - 120	7	37
Methylcyclohexane	ND		25.0	26.1		ug/L		104	68 - 134	6	20
Methylene Chloride	ND		25.0	23.5		ug/L		94	75 - 124	5	15
Styrene	ND		25.0	25.5		ug/L		102	80 - 120	3	20
Tetrachloroethene	ND		25.0	26.6		ug/L		106	74 - 122	6	20
Toluene	ND		25.0	25.4		ug/L		102	80 - 122	5	15
trans-1,2-Dichloroethene	ND		25.0	23.3		ug/L		93	73 - 127	8	20
Trichloroethene	ND		25.0	26.8		ug/L		107	74 - 123	1	16
Trichlorofluoromethane	ND		25.0	26.3		ug/L		105	62 - 150	8	20
Vinyl chloride	ND		25.0	29.2		ug/L		117	65 - 133	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-597023/1-A
Matrix: Water
Analysis Batch: 597230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 02:08	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/20/21 08:51	09/22/21 02:08	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 02:08	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/20/21 08:51	09/22/21 02:08	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 02:08	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 02:08	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 02:08	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 02:08	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/20/21 08:51	09/22/21 02:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-597023/1-A
Matrix: Water
Analysis Batch: 597230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/20/21 08:51	09/22/21 02:08	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 02:08	1
2-Nitroaniline	ND		10	0.42	ug/L		09/20/21 08:51	09/22/21 02:08	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/20/21 08:51	09/22/21 02:08	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 02:08	1
3-Nitroaniline	ND		10	0.48	ug/L		09/20/21 08:51	09/22/21 02:08	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 02:08	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 02:08	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/20/21 08:51	09/22/21 02:08	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 02:08	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 02:08	1
4-Methylphenol	ND		10	0.36	ug/L		09/20/21 08:51	09/22/21 02:08	1
4-Nitroaniline	ND		10	0.25	ug/L		09/20/21 08:51	09/22/21 02:08	1
4-Nitrophenol	ND		10	1.5	ug/L		09/20/21 08:51	09/22/21 02:08	1
Acenaphthene	ND		5.0	0.41	ug/L		09/20/21 08:51	09/22/21 02:08	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/20/21 08:51	09/22/21 02:08	1
Acetophenone	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 02:08	1
Anthracene	ND		5.0	0.28	ug/L		09/20/21 08:51	09/22/21 02:08	1
Atrazine	ND		5.0	0.46	ug/L		09/20/21 08:51	09/22/21 02:08	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/20/21 08:51	09/22/21 02:08	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 02:08	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 02:08	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 02:08	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 02:08	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/20/21 08:51	09/22/21 02:08	1
Biphenyl	ND		5.0	0.65	ug/L		09/20/21 08:51	09/22/21 02:08	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/20/21 08:51	09/22/21 02:08	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/20/21 08:51	09/22/21 02:08	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 02:08	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 02:08	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/20/21 08:51	09/22/21 02:08	1
Caprolactam	ND		5.0	2.2	ug/L		09/20/21 08:51	09/22/21 02:08	1
Carbazole	ND		5.0	0.30	ug/L		09/20/21 08:51	09/22/21 02:08	1
Chrysene	ND		5.0	0.33	ug/L		09/20/21 08:51	09/22/21 02:08	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/20/21 08:51	09/22/21 02:08	1
Dibenzofuran	ND		10	0.51	ug/L		09/20/21 08:51	09/22/21 02:08	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/20/21 08:51	09/22/21 02:08	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 02:08	1
Di-n-butyl phthalate	0.311	J	5.0	0.31	ug/L		09/20/21 08:51	09/22/21 02:08	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 02:08	1
Fluoranthene	ND		5.0	0.40	ug/L		09/20/21 08:51	09/22/21 02:08	1
Fluorene	ND		5.0	0.36	ug/L		09/20/21 08:51	09/22/21 02:08	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 02:08	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/20/21 08:51	09/22/21 02:08	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 02:08	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/20/21 08:51	09/22/21 02:08	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/20/21 08:51	09/22/21 02:08	1
Isophorone	ND		5.0	0.43	ug/L		09/20/21 08:51	09/22/21 02:08	1
Naphthalene	ND		5.0	0.76	ug/L		09/20/21 08:51	09/22/21 02:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-597023/1-A
Matrix: Water
Analysis Batch: 597230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		5.0	0.29	ug/L		09/20/21 08:51	09/22/21 02:08	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/20/21 08:51	09/22/21 02:08	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/20/21 08:51	09/22/21 02:08	1
Pentachlorophenol	ND		10	2.2	ug/L		09/20/21 08:51	09/22/21 02:08	1
Phenanthrene	ND		5.0	0.44	ug/L		09/20/21 08:51	09/22/21 02:08	1
Phenol	ND		5.0	0.39	ug/L		09/20/21 08:51	09/22/21 02:08	1
Pyrene	ND		5.0	0.34	ug/L		09/20/21 08:51	09/22/21 02:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*41 - 120*	*09/20/21 08:51*	*09/22/21 02:08*	*1*
2-Fluorobiphenyl	*98*		*48 - 120*	*09/20/21 08:51*	*09/22/21 02:08*	*1*
2-Fluorophenol	*63*		*35 - 120*	*09/20/21 08:51*	*09/22/21 02:08*	*1*
Nitrobenzene-d5	*94*		*46 - 120*	*09/20/21 08:51*	*09/22/21 02:08*	*1*
Phenol-d5	*50*		*22 - 120*	*09/20/21 08:51*	*09/22/21 02:08*	*1*
p-Terphenyl-d14	*100*		*60 - 148*	*09/20/21 08:51*	*09/22/21 02:08*	*1*

Lab Sample ID: LCS 480-597023/2-A
Matrix: Water
Analysis Batch: 597230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	26.6		ug/L		83	65 - 126
2,4,6-Trichlorophenol	32.0	27.2		ug/L		85	64 - 120
2,4-Dichlorophenol	32.0	25.5		ug/L		80	63 - 120
2,4-Dimethylphenol	32.0	26.2		ug/L		82	47 - 120
2,4-Dinitrophenol	64.0	62.9		ug/L		98	31 - 137
2,4-Dinitrotoluene	32.0	30.4		ug/L		95	69 - 120
2,6-Dinitrotoluene	32.0	29.4		ug/L		92	68 - 120
2-Chloronaphthalene	32.0	25.8		ug/L		81	58 - 120
2-Chlorophenol	32.0	24.8		ug/L		77	48 - 120
2-Methylnaphthalene	32.0	26.7		ug/L		83	59 - 120
2-Methylphenol	32.0	31.6		ug/L		99	39 - 120
2-Nitroaniline	32.0	29.4		ug/L		92	54 - 127
2-Nitrophenol	32.0	25.9		ug/L		81	52 - 125
3,3'-Dichlorobenzidine	64.0	64.1		ug/L		100	49 - 135
3-Nitroaniline	32.0	23.2		ug/L		72	51 - 120
4,6-Dinitro-2-methylphenol	64.0	66.6		ug/L		104	46 - 136
4-Bromophenyl phenyl ether	32.0	31.2		ug/L		98	65 - 120
4-Chloro-3-methylphenol	32.0	27.1		ug/L		85	61 - 123
4-Chloroaniline	32.0	19.6		ug/L		61	30 - 120
4-Chlorophenyl phenyl ether	32.0	30.2		ug/L		94	62 - 120
4-Methylphenol	32.0	21.5		ug/L		67	29 - 131
4-Nitroaniline	32.0	28.8		ug/L		90	65 - 120
4-Nitrophenol	64.0	45.7		ug/L		71	45 - 120
Acenaphthene	32.0	28.0		ug/L		88	60 - 120
Acenaphthylene	32.0	29.6		ug/L		92	63 - 120
Acetophenone	32.0	26.2		ug/L		82	45 - 120
Anthracene	32.0	31.3		ug/L		98	67 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-597023/2-A
Matrix: Water
Analysis Batch: 597230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	64.0	75.3		ug/L		118	71 - 130
Benzaldehyde	64.0	57.8		ug/L		90	10 - 140
Benzo(a)anthracene	32.0	29.9		ug/L		93	70 - 121
Benzo(a)pyrene	32.0	27.0		ug/L		84	60 - 123
Benzo(b)fluoranthene	32.0	29.9		ug/L		93	66 - 126
Benzo(g,h,i)perylene	32.0	27.6		ug/L		86	66 - 150
Benzo(k)fluoranthene	32.0	28.1		ug/L		88	65 - 124
Biphenyl	32.0	27.3		ug/L		85	59 - 120
bis (2-chloroisopropyl) ether	32.0	31.3		ug/L		98	21 - 136
Bis(2-chloroethoxy)methane	32.0	26.3		ug/L		82	50 - 128
Bis(2-chloroethyl)ether	32.0	27.3		ug/L		85	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	24.6		ug/L		77	63 - 139
Butyl benzyl phthalate	32.0	27.7		ug/L		87	70 - 129
Caprolactam	64.0	21.7		ug/L		34	22 - 120
Carbazole	32.0	32.4		ug/L		101	66 - 123
Chrysene	32.0	27.8		ug/L		87	69 - 120
Dibenz(a,h)anthracene	32.0	28.6		ug/L		90	65 - 135
Dibenzofuran	32.0	28.2		ug/L		88	66 - 120
Diethyl phthalate	32.0	32.6		ug/L		102	59 - 127
Dimethyl phthalate	32.0	30.5		ug/L		95	68 - 120
Di-n-butyl phthalate	32.0	32.9		ug/L		103	69 - 131
Di-n-octyl phthalate	32.0	23.5		ug/L		73	63 - 140
Fluoranthene	32.0	33.4		ug/L		104	69 - 126
Fluorene	32.0	29.4		ug/L		92	66 - 120
Hexachlorobenzene	32.0	30.5		ug/L		95	61 - 120
Hexachlorobutadiene	32.0	25.2		ug/L		79	35 - 120
Hexachlorocyclopentadiene	32.0	18.0		ug/L		56	31 - 120
Hexachloroethane	32.0	25.5		ug/L		80	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	26.9		ug/L		84	69 - 146
Isophorone	32.0	28.6		ug/L		89	55 - 120
Naphthalene	32.0	26.5		ug/L		83	57 - 120
Nitrobenzene	32.0	27.4		ug/L		86	53 - 123
N-Nitrosodi-n-propylamine	32.0	27.6		ug/L		86	32 - 140
Pentachlorophenol	64.0	115	*+	ug/L		179	29 - 136
Phenanthrene	32.0	31.6		ug/L		99	68 - 120
Phenol	32.0	15.4		ug/L		48	17 - 120
Pyrene	32.0	30.0		ug/L		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*41 - 120*
2-Fluorobiphenyl	*87*		*48 - 120*
2-Fluorophenol	*57*		*35 - 120*
Nitrobenzene-d5	*86*		*46 - 120*
Phenol-d5	*47*		*22 - 120*
p-Terphenyl-d14	*93*		*60 - 148*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597230

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		32.0	29.5		ug/L		92	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	34.3		ug/L		107	28 - 121
2,4,5-Trichlorophenol	ND		32.0	32.5		ug/L		102	65 - 126
2,4,6-Trichlorophenol	ND		32.0	31.3		ug/L		98	64 - 120
2,4-Dichlorophenol	ND		32.0	29.3		ug/L		92	48 - 132
2,4-Dimethylphenol	ND		32.0	29.8		ug/L		93	39 - 130
2,4-Dinitrophenol	ND		64.0	70.5		ug/L		110	21 - 150
2,4-Dinitrotoluene	ND		32.0	32.0		ug/L		100	54 - 138
2,6-Dinitrotoluene	ND		32.0	30.8		ug/L		96	17 - 150
2-Chloronaphthalene	ND		32.0	28.4		ug/L		89	52 - 124
2-Chlorophenol	ND		32.0	26.9		ug/L		84	48 - 120
2-Methylnaphthalene	ND		32.0	30.0		ug/L		94	34 - 140
2-Methylphenol	ND		32.0	34.7		ug/L		108	46 - 120
2-Nitroaniline	ND		32.0	30.8		ug/L		96	44 - 136
2-Nitrophenol	ND		32.0	28.1		ug/L		88	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	54.0		ug/L		84	10 - 150
3-Nitroaniline	ND		32.0	22.4		ug/L		70	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	73.3		ug/L		115	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	31.9		ug/L		100	63 - 126
4-Chloro-3-methylphenol	ND		32.0	29.3		ug/L		92	64 - 127
4-Chloroaniline	ND	F2	32.0	16.0		ug/L		50	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	31.2		ug/L		97	61 - 120
4-Methylphenol	ND		32.0	24.0		ug/L		75	36 - 120
4-Nitroaniline	ND		32.0	29.4		ug/L		92	32 - 150
4-Nitrophenol	ND		64.0	49.0		ug/L		77	23 - 132
Acenaphthene	ND		32.0	30.1		ug/L		94	48 - 120
Acenaphthylene	ND		32.0	32.0		ug/L		100	63 - 120
Acetophenone	ND		32.0	28.6		ug/L		90	53 - 120
Anthracene	ND		32.0	30.9		ug/L		96	65 - 122
Atrazine	ND		64.0	74.8		ug/L		117	50 - 150
Benzaldehyde	ND		64.0	62.6		ug/L		98	10 - 150
Benzo(a)anthracene	ND		32.0	21.6		ug/L		67	43 - 124
Benzo(a)pyrene	ND		32.0	16.6		ug/L		52	23 - 125
Benzo(b)fluoranthene	ND		32.0	17.9		ug/L		56	27 - 127
Benzo(g,h,i)perylene	ND		32.0	15.8		ug/L		49	16 - 147
Benzo(k)fluoranthene	ND		32.0	17.0		ug/L		53	20 - 124
Bis(2-chloroethoxy)methane	ND		32.0	29.1		ug/L		91	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	29.9		ug/L		93	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	14.4		ug/L		45	16 - 150
Butyl benzyl phthalate	ND		32.0	23.8		ug/L		75	51 - 140
Caprolactam	ND		64.0	22.6		ug/L		35	10 - 120
Carbazole	ND		32.0	33.6		ug/L		105	16 - 148
Chrysene	ND		32.0	19.6		ug/L		61	44 - 122
Di-n-butyl phthalate	ND		32.0	30.5		ug/L		95	65 - 129
Di-n-octyl phthalate	ND		32.0	13.8		ug/L		43	16 - 150
Dibenz(a,h)anthracene	ND		32.0	15.9		ug/L		50	16 - 139
Dibenzofuran	ND		32.0	30.3		ug/L		95	60 - 120
Diethyl phthalate	ND		32.0	31.9		ug/L		100	53 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597230

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	ND		32.0	31.5		ug/L		98	59 - 123
Fluoranthene	ND		32.0	31.1		ug/L		97	63 - 129
Fluorene	ND		32.0	30.6		ug/L		96	62 - 120
Hexachlorobenzene	ND		32.0	28.9		ug/L		90	57 - 121
Hexachlorobutadiene	ND		32.0	26.8		ug/L		84	37 - 120
Hexachlorocyclopentadiene	ND		32.0	22.9		ug/L		71	21 - 120
Hexachloroethane	ND		32.0	27.0		ug/L		85	16 - 130
Indeno(1,2,3-cd)pyrene	ND		32.0	15.1		ug/L		47	16 - 140
Isophorone	ND		32.0	32.0		ug/L		100	48 - 133
N-Nitrosodi-n-propylamine	ND		32.0	30.4		ug/L		95	49 - 120
Naphthalene	ND		32.0	29.2		ug/L		91	45 - 120
Nitrobenzene	ND		32.0	31.2		ug/L		98	45 - 123
Pentachlorophenol	ND	F1 *+	64.0	127	F1	ug/L		198	23 - 149
Phenanthrene	ND		32.0	32.9		ug/L		103	65 - 122
Phenol	ND		32.0	16.4		ug/L		51	16 - 120
Pyrene	ND		32.0	29.0		ug/L		91	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*110*		*41 - 120*
2-Fluorobiphenyl	*99*		*48 - 120*
2-Fluorophenol	*64*		*35 - 120*
Nitrobenzene-d5	*98*		*46 - 120*
p-Terphenyl-d14	*62*		*60 - 148*
Phenol-d5	*48*		*22 - 120*

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597230

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		32.0	28.3		ug/L		88	57 - 120	4	20
bis (2-chloroisopropyl) ether	ND		32.0	32.7		ug/L		102	28 - 121	5	24
2,4,5-Trichlorophenol	ND		32.0	31.5		ug/L		98	65 - 126	3	18
2,4,6-Trichlorophenol	ND		32.0	30.6		ug/L		96	64 - 120	2	19
2,4-Dichlorophenol	ND		32.0	27.1		ug/L		85	48 - 132	8	19
2,4-Dimethylphenol	ND		32.0	27.3		ug/L		85	39 - 130	9	42
2,4-Dinitrophenol	ND		64.0	67.4		ug/L		105	21 - 150	5	22
2,4-Dinitrotoluene	ND		32.0	31.3		ug/L		98	54 - 138	2	20
2,6-Dinitrotoluene	ND		32.0	30.2		ug/L		94	17 - 150	2	15
2-Chloronaphthalene	ND		32.0	27.0		ug/L		84	52 - 124	5	21
2-Chlorophenol	ND		32.0	24.9		ug/L		78	48 - 120	8	25
2-Methylnaphthalene	ND		32.0	27.1		ug/L		85	34 - 140	10	21
2-Methylphenol	ND		32.0	33.1		ug/L		103	46 - 120	5	27
2-Nitroaniline	ND		32.0	31.6		ug/L		99	44 - 136	3	15
2-Nitrophenol	ND		32.0	26.3		ug/L		82	38 - 141	7	18
3,3'-Dichlorobenzidine	ND		64.0	51.4		ug/L		80	10 - 150	5	25
3-Nitroaniline	ND		32.0	23.9		ug/L		75	32 - 150	6	19
4,6-Dinitro-2-methylphenol	ND		64.0	74.5		ug/L		116	38 - 150	2	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597230

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	ND		32.0	33.5		ug/L		105	63 - 126	5	15
4-Chloro-3-methylphenol	ND		32.0	29.2		ug/L		91	64 - 127	0	27
4-Chloroaniline	ND	F2	32.0	20.2	F2	ug/L		63	16 - 124	23	22
4-Chlorophenyl phenyl ether	ND		32.0	30.9		ug/L		97	61 - 120	1	16
4-Methylphenol	ND		32.0	23.5		ug/L		73	36 - 120	2	24
4-Nitroaniline	ND		32.0	24.3		ug/L		76	32 - 150	19	24
4-Nitrophenol	ND		64.0	48.2		ug/L		75	23 - 132	2	48
Acenaphthene	ND		32.0	28.8		ug/L		90	48 - 120	4	24
Acenaphthylene	ND		32.0	31.3		ug/L		98	63 - 120	2	18
Acetophenone	ND		32.0	27.6		ug/L		86	53 - 120	4	20
Anthracene	ND		32.0	32.9		ug/L		103	65 - 122	6	15
Atrazine	ND		64.0	77.5		ug/L		121	50 - 150	4	20
Benzaldehyde	ND		64.0	61.1		ug/L		95	10 - 150	2	20
Benzo(a)anthracene	ND		32.0	22.4		ug/L		70	43 - 124	4	15
Benzo(a)pyrene	ND		32.0	17.4		ug/L		54	23 - 125	5	15
Benzo(b)fluoranthene	ND		32.0	18.3		ug/L		57	27 - 127	2	15
Benzo(g,h,i)perylene	ND		32.0	16.7		ug/L		52	16 - 147	6	15
Benzo(k)fluoranthene	ND		32.0	18.5		ug/L		58	20 - 124	8	22
Bis(2-chloroethoxy)methane	ND		32.0	27.3		ug/L		85	44 - 128	6	17
Bis(2-chloroethyl)ether	ND		32.0	28.1		ug/L		88	45 - 120	6	21
Bis(2-ethylhexyl) phthalate	ND		32.0	15.6		ug/L		49	16 - 150	8	15
Butyl benzyl phthalate	ND		32.0	25.6		ug/L		80	51 - 140	7	16
Caprolactam	ND		64.0	24.0		ug/L		38	10 - 120	6	20
Carbazole	ND		32.0	36.5		ug/L		114	16 - 148	8	20
Chrysene	ND		32.0	21.1		ug/L		66	44 - 122	7	15
Di-n-butyl phthalate	ND		32.0	32.8		ug/L		103	65 - 129	7	15
Di-n-octyl phthalate	ND		32.0	14.9		ug/L		47	16 - 150	8	16
Dibenz(a,h)anthracene	ND		32.0	17.2		ug/L		54	16 - 139	8	15
Dibenzofuran	ND		32.0	30.0		ug/L		94	60 - 120	1	15
Diethyl phthalate	ND		32.0	32.4		ug/L		101	53 - 133	2	15
Dimethyl phthalate	ND		32.0	33.0		ug/L		103	59 - 123	5	15
Fluoranthene	ND		32.0	34.6		ug/L		108	63 - 129	11	15
Fluorene	ND		32.0	31.0		ug/L		97	62 - 120	1	15
Hexachlorobenzene	ND		32.0	30.2		ug/L		94	57 - 121	5	15
Hexachlorobutadiene	ND		32.0	23.1		ug/L		72	37 - 120	15	44
Hexachlorocyclopentadiene	ND		32.0	20.3		ug/L		63	21 - 120	12	49
Hexachloroethane	ND		32.0	24.9		ug/L		78	16 - 130	8	46
Indeno(1,2,3-cd)pyrene	ND		32.0	15.9		ug/L		50	16 - 140	5	15
Isophorone	ND		32.0	29.6		ug/L		92	48 - 133	8	17
N-Nitrosodi-n-propylamine	ND		32.0	29.6		ug/L		93	49 - 120	2	31
Naphthalene	ND		32.0	26.8		ug/L		84	45 - 120	8	29
Nitrobenzene	ND		32.0	28.4		ug/L		89	45 - 123	10	24
Pentachlorophenol	ND	F1 *+	64.0	134	E F1	ug/L		209	23 - 149	5	37
Phenanthrene	ND		32.0	35.5		ug/L		111	65 - 122	8	15
Phenol	ND		32.0	14.7		ug/L		46	16 - 120	11	34
Pyrene	ND		32.0	30.3		ug/L		95	58 - 128	4	19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597230

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597023

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	*117*		*41 - 120*
2-Fluorobiphenyl	*92*		*48 - 120*
2-Fluorophenol	*59*		*35 - 120*
Nitrobenzene-d5	*85*		*46 - 120*
p-Terphenyl-d14	*66*		*60 - 148*
Phenol-d5	*47*		*22 - 120*

Lab Sample ID: MB 480-597244/1-A
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		99	54	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2-Chlorophenol	ND		330	31	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2-Methylphenol	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2-Nitroaniline	ND		330	25	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
2-Nitrophenol	ND		170	48	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
3-Nitroaniline	ND		330	47	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4-Chloroaniline	ND		170	42	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4-Methylphenol	ND		330	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4-Nitroaniline	ND		330	88	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
4-Nitrophenol	ND		330	120	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Acenaphthene	ND		170	25	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Acenaphthylene	ND		170	22	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Acetophenone	ND		170	23	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Anthracene	ND		170	42	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Atrazine	ND		170	58	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Benzaldehyde	ND		170	130	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Biphenyl	ND		170	25	ug/Kg		09/21/21 14:57	09/22/21 21:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-597244/1-A
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Caprolactam	ND		170	51	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Carbazole	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Chrysene	ND		170	38	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Dibenzofuran	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Diethyl phthalate	ND		170	22	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Fluoranthene	ND		170	18	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Fluorene	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Hexachloroethane	ND		170	22	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Isophorone	ND		170	36	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Naphthalene	ND		170	22	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Nitrobenzene	ND		170	19	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Pentachlorophenol	ND		330	170	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Phenanthrene	ND		170	25	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Phenol	ND		170	26	ug/Kg		09/21/21 14:57	09/22/21 21:20	1
Pyrene	ND		170	20	ug/Kg		09/21/21 14:57	09/22/21 21:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*54 - 120*	*09/21/21 14:57*	*09/22/21 21:20*	*1*
2-Fluorobiphenyl	*80*		*60 - 120*	*09/21/21 14:57*	*09/22/21 21:20*	*1*
2-Fluorophenol	*73*		*52 - 120*	*09/21/21 14:57*	*09/22/21 21:20*	*1*
Nitrobenzene-d5	*70*		*53 - 120*	*09/21/21 14:57*	*09/22/21 21:20*	*1*
Phenol-d5	*81*		*54 - 120*	*09/21/21 14:57*	*09/22/21 21:20*	*1*
p-Terphenyl-d14	*99*		*79 - 130*	*09/21/21 14:57*	*09/22/21 21:20*	*1*

Lab Sample ID: LCS 480-597244/2-A
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1640	517		ug/Kg		31	23 - 120
2,4,5-Trichlorophenol	1640	1480		ug/Kg		90	59 - 126
2,4,6-Trichlorophenol	1640	1440		ug/Kg		87	59 - 123
2,4-Dichlorophenol	1640	1320		ug/Kg		80	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-597244/2-A
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	1640	1320		ug/Kg		80	59 - 120
2,4-Dinitrophenol	3290	3330		ug/Kg		101	41 - 146
2,4-Dinitrotoluene	1640	1660		ug/Kg		101	63 - 120
2,6-Dinitrotoluene	1640	1560		ug/Kg		95	66 - 120
2-Chloronaphthalene	1640	1320		ug/Kg		80	57 - 120
2-Chlorophenol	1640	1180		ug/Kg		72	53 - 120
2-Methylnaphthalene	1640	1230		ug/Kg		75	59 - 120
2-Methylphenol	1640	1280		ug/Kg		78	54 - 120
2-Nitroaniline	1640	1350		ug/Kg		82	61 - 120
2-Nitrophenol	1640	1240		ug/Kg		75	56 - 120
3,3'-Dichlorobenzidine	3290	3260		ug/Kg		99	54 - 120
3-Nitroaniline	1640	1490		ug/Kg		90	48 - 120
4,6-Dinitro-2-methylphenol	3290	3430		ug/Kg		104	49 - 122
4-Bromophenyl phenyl ether	1640	1590		ug/Kg		97	58 - 120
4-Chloro-3-methylphenol	1640	1490		ug/Kg		91	61 - 120
4-Chloroaniline	1640	1330		ug/Kg		81	38 - 120
4-Chlorophenyl phenyl ether	1640	1540		ug/Kg		94	63 - 124
4-Methylphenol	1640	1330		ug/Kg		81	55 - 120
4-Nitroaniline	1640	1660		ug/Kg		101	56 - 120
4-Nitrophenol	3290	3300		ug/Kg		101	43 - 147
Acenaphthene	1640	1360		ug/Kg		83	62 - 120
Acenaphthylene	1640	1490		ug/Kg		91	58 - 121
Acetophenone	1640	1170		ug/Kg		71	54 - 120
Anthracene	1640	1640		ug/Kg		100	62 - 120
Atrazine	3290	3360		ug/Kg		102	60 - 127
Benzaldehyde	3290	2320		ug/Kg		70	10 - 150
Benzo[a]anthracene	1640	1670		ug/Kg		101	65 - 120
Benzo[a]pyrene	1640	1630		ug/Kg		99	64 - 120
Benzo[b]fluoranthene	1640	1660		ug/Kg		101	64 - 120
Benzo[g,h,i]perylene	1640	1610		ug/Kg		98	45 - 145
Benzo[k]fluoranthene	1640	1740		ug/Kg		106	65 - 120
Biphenyl	1640	1300		ug/Kg		79	59 - 120
bis (2-chloroisopropyl) ether	1640	818		ug/Kg		50	44 - 120
Bis(2-chloroethoxy)methane	1640	1170		ug/Kg		71	55 - 120
Bis(2-chloroethyl)ether	1640	1060		ug/Kg		65	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1660		ug/Kg		101	61 - 133
Butyl benzyl phthalate	1640	1690		ug/Kg		103	61 - 129
Caprolactam	3290	3440		ug/Kg		105	47 - 120
Carbazole	1640	1710		ug/Kg		104	65 - 120
Chrysene	1640	1670		ug/Kg		101	64 - 120
Dibenz(a,h)anthracene	1640	1650		ug/Kg		100	54 - 132
Dibenzofuran	1640	1500		ug/Kg		91	63 - 120
Diethyl phthalate	1640	1660		ug/Kg		101	66 - 120
Dimethyl phthalate	1640	1640		ug/Kg		100	65 - 124
Di-n-butyl phthalate	1640	1720		ug/Kg		104	58 - 130
Di-n-octyl phthalate	1640	1640		ug/Kg		100	57 - 133
Fluoranthene	1640	1670		ug/Kg		102	62 - 120
Fluorene	1640	1500		ug/Kg		92	63 - 120
Hexachlorobenzene	1640	1710		ug/Kg		104	60 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-597244/2-A
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	1640	1100		ug/Kg		67	45 - 120
Hexachlorocyclopentadiene	1640	1070		ug/Kg		65	47 - 120
Hexachloroethane	1640	856		ug/Kg		52	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1610		ug/Kg		98	56 - 134
Isophorone	1640	1260		ug/Kg		77	56 - 120
Naphthalene	1640	1120		ug/Kg		68	55 - 120
Nitrobenzene	1640	1020		ug/Kg		62	54 - 120
N-Nitrosodi-n-propylamine	1640	1150		ug/Kg		70	52 - 120
Pentachlorophenol	3290	3060		ug/Kg		93	51 - 120
Phenanthrene	1640	1600		ug/Kg		98	60 - 120
Phenol	1640	1170		ug/Kg		71	53 - 120
Pyrene	1640	1640		ug/Kg		100	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*109*		*54 - 120*
2-Fluorobiphenyl	*78*		*60 - 120*
2-Fluorophenol	*70*		*52 - 120*
Nitrobenzene-d5	*65*		*53 - 120*
Phenol-d5	*79*		*54 - 120*
p-Terphenyl-d14	*103*		*79 - 130*

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		2200	ND		ug/Kg	☼	NC	13 - 120
2,4,5-Trichlorophenol	ND		2200	ND		ug/Kg	☼	NC	46 - 120
2,4,6-Trichlorophenol	ND		2200	ND		ug/Kg	☼	NC	41 - 123
2,4-Dichlorophenol	ND		2200	ND		ug/Kg	☼	NC	45 - 120
2,4-Dimethylphenol	ND		2200	ND		ug/Kg	☼	NC	52 - 120
2,4-Dinitrophenol	ND		4390	ND		ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		2200	ND		ug/Kg	☼	NC	63 - 125
2,6-Dinitrotoluene	ND		2200	ND		ug/Kg	☼	NC	66 - 120
2-Chloronaphthalene	ND		2200	ND		ug/Kg	☼	NC	57 - 120
2-Chlorophenol	ND		2200	ND		ug/Kg	☼	NC	43 - 120
2-Methylnaphthalene	ND		2200	ND		ug/Kg	☼	NC	55 - 120
2-Methylphenol	ND		2200	ND		ug/Kg	☼	NC	48 - 120
2-Nitroaniline	ND		2200	ND		ug/Kg	☼	NC	61 - 120
2-Nitrophenol	ND		2200	ND		ug/Kg	☼	NC	37 - 120
3,3'-Dichlorobenzidine	ND		4390	ND		ug/Kg	☼	NC	37 - 126
3-Nitroaniline	ND		2200	ND		ug/Kg	☼	NC	48 - 120
4,6-Dinitro-2-methylphenol	ND		4390	ND		ug/Kg	☼	NC	23 - 149
4-Bromophenyl phenyl ether	ND		2200	ND		ug/Kg	☼	NC	58 - 120
4-Chloro-3-methylphenol	ND		2200	ND		ug/Kg	☼	NC	49 - 125
4-Chloroaniline	ND		2200	ND		ug/Kg	☼	NC	38 - 120
4-Chlorophenyl phenyl ether	ND		2200	ND		ug/Kg	☼	NC	63 - 124
4-Methylphenol	ND		2200	ND		ug/Kg	☼	NC	50 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	ND		2200	ND		ug/Kg	☼	NC	47 - 120
4-Nitrophenol	ND		4390	ND		ug/Kg	☼	NC	31 - 147
Acenaphthene	ND		2200	ND		ug/Kg	☼	NC	60 - 120
Acenaphthylene	ND		2200	ND		ug/Kg	☼	NC	58 - 121
Acetophenone	ND		2200	ND		ug/Kg	☼	NC	47 - 120
Anthracene	ND		2200	ND		ug/Kg	☼	NC	62 - 120
Atrazine	ND		4390	ND		ug/Kg	☼	NC	60 - 150
Benzaldehyde	ND		4390	ND		ug/Kg	☼	NC	10 - 150
Benzo[a]anthracene	ND		2200	ND		ug/Kg	☼	NC	65 - 120
Benzo[a]pyrene	ND		2200	4350	J	ug/Kg	☼	NC	64 - 120
Benzo[b]fluoranthene	4500	J F2	2200	7200	J	ug/Kg	☼	123	10 - 150
Benzo[g,h,i]perylene	3200	J F2 F1	2200	5790	J	ug/Kg	☼	118	45 - 145
Benzo[k]fluoranthene	ND		2200	3900	J	ug/Kg	☼	NC	23 - 150
Biphenyl	ND		2200	ND		ug/Kg	☼	NC	58 - 120
bis (2-chloroisopropyl) ether	ND		2200	ND		ug/Kg	☼	NC	31 - 120
Bis(2-chloroethoxy)methane	ND		2200	ND		ug/Kg	☼	NC	52 - 120
Bis(2-chloroethyl)ether	ND		2200	ND		ug/Kg	☼	NC	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2200	ND		ug/Kg	☼	NC	61 - 133
Butyl benzyl phthalate	ND		2200	ND		ug/Kg	☼	NC	61 - 120
Caprolactam	ND		4390	ND		ug/Kg	☼	NC	37 - 133
Carbazole	ND		2200	ND		ug/Kg	☼	NC	59 - 120
Chrysene	ND		2200	ND		ug/Kg	☼	NC	64 - 120
Dibenz(a,h)anthracene	ND		2200	ND		ug/Kg	☼	NC	54 - 132
Dibenzofuran	ND		2200	ND		ug/Kg	☼	NC	62 - 120
Diethyl phthalate	ND		2200	ND		ug/Kg	☼	NC	66 - 120
Dimethyl phthalate	ND		2200	ND		ug/Kg	☼	NC	65 - 124
Di-n-butyl phthalate	ND		2200	ND		ug/Kg	☼	NC	58 - 130
Di-n-octyl phthalate	ND		2200	ND		ug/Kg	☼	NC	57 - 133
Fluoranthene	ND		2200	3510	J	ug/Kg	☼	NC	62 - 120
Fluorene	ND		2200	ND		ug/Kg	☼	NC	63 - 120
Hexachlorobenzene	ND		2200	ND		ug/Kg	☼	NC	60 - 120
Hexachlorobutadiene	ND		2200	ND		ug/Kg	☼	NC	45 - 120
Hexachlorocyclopentadiene	ND		2200	ND		ug/Kg	☼	NC	31 - 120
Hexachloroethane	ND		2200	ND		ug/Kg	☼	NC	21 - 120
Indeno[1,2,3-cd]pyrene	ND		2200	4370	J	ug/Kg	☼	NC	56 - 134
Isophorone	ND		2200	ND		ug/Kg	☼	NC	56 - 120
Naphthalene	ND		2200	ND		ug/Kg	☼	NC	46 - 120
Nitrobenzene	ND		2200	ND		ug/Kg	☼	NC	49 - 120
N-Nitrosodi-n-propylamine	ND		2200	ND		ug/Kg	☼	NC	46 - 120
Pentachlorophenol	ND		4390	ND		ug/Kg	☼	NC	25 - 136
Phenanthrene	ND		2200	ND		ug/Kg	☼	NC	60 - 122
Phenol	ND		2200	ND		ug/Kg	☼	NC	50 - 120
Pyrene	ND		2200	3250	J	ug/Kg	☼	NC	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*0*	*S1-*	*54 - 120*
2-Fluorobiphenyl	*0*	*S1-*	*60 - 120*
2-Fluorophenol	*0*	*S1-*	*52 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597244

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	0	S1-	53 - 120
Phenol-d5	0	S1-	54 - 120
p-Terphenyl-d14	0	S1-	79 - 130

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		2170	ND		ug/Kg	☼	NC	13 - 120	NC	50
2,4,5-Trichlorophenol	ND		2170	ND		ug/Kg	☼	NC	46 - 120	NC	18
2,4,6-Trichlorophenol	ND		2170	ND		ug/Kg	☼	NC	41 - 123	NC	19
2,4-Dichlorophenol	ND		2170	ND		ug/Kg	☼	NC	45 - 120	NC	19
2,4-Dimethylphenol	ND		2170	ND		ug/Kg	☼	NC	52 - 120	NC	42
2,4-Dinitrophenol	ND		4350	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		2170	ND		ug/Kg	☼	NC	63 - 125	NC	20
2,6-Dinitrotoluene	ND		2170	ND		ug/Kg	☼	NC	66 - 120	NC	15
2-Chloronaphthalene	ND		2170	ND		ug/Kg	☼	NC	57 - 120	NC	21
2-Chlorophenol	ND		2170	ND		ug/Kg	☼	NC	43 - 120	NC	25
2-Methylnaphthalene	ND		2170	ND		ug/Kg	☼	NC	55 - 120	NC	21
2-Methylphenol	ND		2170	ND		ug/Kg	☼	NC	48 - 120	NC	27
2-Nitroaniline	ND		2170	ND		ug/Kg	☼	NC	61 - 120	NC	15
2-Nitrophenol	ND		2170	ND		ug/Kg	☼	NC	37 - 120	NC	18
3,3'-Dichlorobenzidine	ND		4350	ND		ug/Kg	☼	NC	37 - 126	NC	25
3-Nitroaniline	ND		2170	ND		ug/Kg	☼	NC	48 - 120	NC	19
4,6-Dinitro-2-methylphenol	ND		4350	ND		ug/Kg	☼	NC	23 - 149	NC	15
4-Bromophenyl phenyl ether	ND		2170	ND		ug/Kg	☼	NC	58 - 120	NC	15
4-Chloro-3-methylphenol	ND		2170	ND		ug/Kg	☼	NC	49 - 125	NC	27
4-Chloroaniline	ND		2170	ND		ug/Kg	☼	NC	38 - 120	NC	22
4-Chlorophenyl phenyl ether	ND		2170	ND		ug/Kg	☼	NC	63 - 124	NC	16
4-Methylphenol	ND		2170	ND		ug/Kg	☼	NC	50 - 120	NC	24
4-Nitroaniline	ND		2170	ND		ug/Kg	☼	NC	47 - 120	NC	24
4-Nitrophenol	ND		4350	ND		ug/Kg	☼	NC	31 - 147	NC	25
Acenaphthene	ND		2170	ND		ug/Kg	☼	NC	60 - 120	NC	35
Acenaphthylene	ND		2170	ND		ug/Kg	☼	NC	58 - 121	NC	18
Acetophenone	ND		2170	ND		ug/Kg	☼	NC	47 - 120	NC	20
Anthracene	ND		2170	ND		ug/Kg	☼	NC	62 - 120	NC	15
Atrazine	ND		4350	ND		ug/Kg	☼	NC	60 - 150	NC	20
Benzaldehyde	ND		4350	ND		ug/Kg	☼	NC	10 - 150	NC	20
Benzo[a]anthracene	ND		2170	3830	J	ug/Kg	☼	NC	65 - 120	NC	15
Benzo[a]pyrene	ND		2170	3970	J	ug/Kg	☼	NC	64 - 120	9	15
Benzo[b]fluoranthene	4500	J F2	2170	5740	J F2	ug/Kg	☼	57	10 - 150	23	15
Benzo[g,h,i]perylene	3200	J F2 F1	2170	2640	J F2 F1	ug/Kg	☼	-26	45 - 145	75	15
Benzo[k]fluoranthene	ND		2170	ND		ug/Kg	☼	NC	23 - 150	NC	22
Biphenyl	ND		2170	ND		ug/Kg	☼	NC	58 - 120	NC	20
bis (2-chloroisopropyl) ether	ND		2170	ND		ug/Kg	☼	NC	31 - 120	NC	24
Bis(2-chloroethoxy)methane	ND		2170	ND		ug/Kg	☼	NC	52 - 120	NC	17
Bis(2-chloroethyl)ether	ND		2170	ND		ug/Kg	☼	NC	45 - 120	NC	21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597424

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	ND		2170	ND		ug/Kg	☼	NC	61 - 133	NC	15
Butyl benzyl phthalate	ND		2170	ND		ug/Kg	☼	NC	61 - 120	NC	16
Caprolactam	ND		4350	ND		ug/Kg	☼	NC	37 - 133	NC	20
Carbazole	ND		2170	ND		ug/Kg	☼	NC	59 - 120	NC	20
Chrysene	ND		2170	ND		ug/Kg	☼	NC	64 - 120	NC	15
Dibenz(a,h)anthracene	ND		2170	ND		ug/Kg	☼	NC	54 - 132	NC	15
Dibenzofuran	ND		2170	ND		ug/Kg	☼	NC	62 - 120	NC	15
Diethyl phthalate	ND		2170	ND		ug/Kg	☼	NC	66 - 120	NC	15
Dimethyl phthalate	ND		2170	ND		ug/Kg	☼	NC	65 - 124	NC	15
Di-n-butyl phthalate	ND		2170	ND		ug/Kg	☼	NC	58 - 130	NC	15
Di-n-octyl phthalate	ND		2170	ND		ug/Kg	☼	NC	57 - 133	NC	16
Fluoranthene	ND		2170	3300	J	ug/Kg	☼	NC	62 - 120	6	15
Fluorene	ND		2170	ND		ug/Kg	☼	NC	63 - 120	NC	15
Hexachlorobenzene	ND		2170	ND		ug/Kg	☼	NC	60 - 120	NC	15
Hexachlorobutadiene	ND		2170	ND		ug/Kg	☼	NC	45 - 120	NC	44
Hexachlorocyclopentadiene	ND		2170	ND		ug/Kg	☼	NC	31 - 120	NC	49
Hexachloroethane	ND		2170	ND		ug/Kg	☼	NC	21 - 120	NC	46
Indeno[1,2,3-cd]pyrene	ND		2170	4010	J	ug/Kg	☼	NC	56 - 134	9	15
Isophorone	ND		2170	ND		ug/Kg	☼	NC	56 - 120	NC	17
Naphthalene	ND		2170	ND		ug/Kg	☼	NC	46 - 120	NC	29
Nitrobenzene	ND		2170	ND		ug/Kg	☼	NC	49 - 120	NC	24
N-Nitrosodi-n-propylamine	ND		2170	ND		ug/Kg	☼	NC	46 - 120	NC	31
Pentachlorophenol	ND		4350	ND		ug/Kg	☼	NC	25 - 136	NC	35
Phenanthrene	ND		2170	ND		ug/Kg	☼	NC	60 - 122	NC	15
Phenol	ND		2170	ND		ug/Kg	☼	NC	50 - 120	NC	35
Pyrene	ND		2170	3230	J	ug/Kg	☼	NC	61 - 133	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*0*	*S1-*	*54 - 120*
2-Fluorobiphenyl	*0*	*S1-*	*60 - 120*
2-Fluorophenol	*0*	*S1-*	*52 - 120*
Nitrobenzene-d5	*0*	*S1-*	*53 - 120*
Phenol-d5	*0*	*S1-*	*54 - 120*
p-Terphenyl-d14	*0*	*S1-*	*79 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-597330/1-A
Matrix: Water
Analysis Batch: 597315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		09/22/21 09:02	09/22/21 13:53	1
4,4'-DDE	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 13:53	1
4,4'-DDT	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 13:53	1
Aldrin	ND		0.050	0.0081	ug/L		09/22/21 09:02	09/22/21 13:53	1
alpha-BHC	ND		0.050	0.0077	ug/L		09/22/21 09:02	09/22/21 13:53	1
beta-BHC	ND		0.050	0.025	ug/L		09/22/21 09:02	09/22/21 13:53	1
cis-Chlordane	ND		0.050	0.015	ug/L		09/22/21 09:02	09/22/21 13:53	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-597330/1-A
Matrix: Water
Analysis Batch: 597315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		0.050	0.010	ug/L		09/22/21 09:02	09/22/21 13:53	1
Dieldrin	ND		0.050	0.0098	ug/L		09/22/21 09:02	09/22/21 13:53	1
Endosulfan I	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 13:53	1
Endosulfan II	0.0152	J	0.050	0.012	ug/L		09/22/21 09:02	09/22/21 13:53	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 13:53	1
Endrin	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 13:53	1
Endrin aldehyde	ND		0.050	0.016	ug/L		09/22/21 09:02	09/22/21 13:53	1
Endrin ketone	ND		0.050	0.012	ug/L		09/22/21 09:02	09/22/21 13:53	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		09/22/21 09:02	09/22/21 13:53	1
Heptachlor	ND		0.050	0.0085	ug/L		09/22/21 09:02	09/22/21 13:53	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		09/22/21 09:02	09/22/21 13:53	1
Methoxychlor	ND		0.050	0.014	ug/L		09/22/21 09:02	09/22/21 13:53	1
Toxaphene	ND		0.50	0.12	ug/L		09/22/21 09:02	09/22/21 13:53	1
trans-Chlordane	ND		0.050	0.011	ug/L		09/22/21 09:02	09/22/21 13:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*20 - 120*	*09/22/21 09:02*	*09/22/21 13:53*	*1*
DCB Decachlorobiphenyl	*53*		*20 - 120*	*09/22/21 09:02*	*09/22/21 13:53*	*1*
Tetrachloro-m-xylene	*92*		*44 - 120*	*09/22/21 09:02*	*09/22/21 13:53*	*1*
Tetrachloro-m-xylene	*72*		*44 - 120*	*09/22/21 09:02*	*09/22/21 13:53*	*1*

Lab Sample ID: LCS 480-597330/2-A
Matrix: Water
Analysis Batch: 597315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.390		ug/L		98	64 - 129
4,4'-DDE	0.400	0.343		ug/L		86	50 - 120
4,4'-DDT	0.400	0.380		ug/L		95	59 - 120
Aldrin	0.400	0.304		ug/L		76	40 - 125
alpha-BHC	0.400	0.304		ug/L		76	52 - 125
beta-BHC	0.400	0.360		ug/L		90	51 - 120
cis-Chlordane	0.400	0.339		ug/L		85	52 - 120
delta-BHC	0.400	0.344		ug/L		86	51 - 120
Dieldrin	0.400	0.398		ug/L		99	66 - 128
Endosulfan I	0.400	0.374		ug/L		94	57 - 120
Endosulfan II	0.400	0.405		ug/L		101	66 - 131
Endosulfan sulfate	0.400	0.452		ug/L		113	66 - 136
Endrin	0.400	0.409		ug/L		102	65 - 135
Endrin aldehyde	0.400	0.361		ug/L		90	61 - 134
Endrin ketone	0.400	0.424		ug/L		106	71 - 133
gamma-BHC (Lindane)	0.400	0.326		ug/L		82	56 - 120
Heptachlor	0.400	0.324		ug/L		81	58 - 120
Heptachlor epoxide	0.400	0.371		ug/L		93	65 - 125
Methoxychlor	0.400	0.425		ug/L		106	50 - 150
trans-Chlordane	0.400	0.341		ug/L		85	54 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-597330/2-A
Matrix: Water
Analysis Batch: 597315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597330

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	46		20 - 120
DCB Decachlorobiphenyl	56		20 - 120
Tetrachloro-m-xylene	81		44 - 120
Tetrachloro-m-xylene	99		44 - 120

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597315

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.400	0.318		ug/L		79	57 - 130
4,4'-DDE	ND		0.400	0.307		ug/L		77	39 - 120
4,4'-DDT	ND		0.400	0.287		ug/L		72	37 - 130
Aldrin	ND		0.400	0.278		ug/L		69	39 - 125
alpha-BHC	ND		0.400	0.293		ug/L		73	48 - 120
cis-Chlordane	ND		0.400	0.295		ug/L		74	44 - 120
beta-BHC	ND		0.400	0.343		ug/L		86	49 - 120
delta-BHC	ND		0.400	0.336		ug/L		84	50 - 120
Dieldrin	ND		0.400	0.402		ug/L		101	56 - 130
Endosulfan I	ND		0.400	0.380		ug/L		95	40 - 126
Endosulfan II	ND		0.400	0.365		ug/L		91	59 - 140
Endosulfan sulfate	ND		0.400	0.403		ug/L		101	60 - 134
Endrin	ND		0.400	0.387		ug/L		97	54 - 135
Endrin aldehyde	ND		0.400	0.345		ug/L		86	50 - 142
Endrin ketone	ND		0.400	0.381		ug/L		95	57 - 138
gamma-BHC (Lindane)	ND		0.400	0.309		ug/L		77	50 - 120
trans-Chlordane	ND		0.400	0.320		ug/L		80	42 - 120
Heptachlor	ND		0.400	0.312		ug/L		78	56 - 120
Heptachlor epoxide	ND		0.400	0.369		ug/L		92	58 - 125
Methoxychlor	ND		0.400	0.377		ug/L		94	40 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	33		20 - 120
DCB Decachlorobiphenyl	43		20 - 120
Tetrachloro-m-xylene	84		44 - 120
Tetrachloro-m-xylene	68		44 - 120

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597315

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.400	0.372		ug/L		93	57 - 130	16	23
4,4'-DDE	ND		0.400	0.322		ug/L		81	39 - 120	5	22
4,4'-DDT	ND		0.400	0.347		ug/L		87	37 - 130	19	24
Aldrin	ND		0.400	0.298		ug/L		75	39 - 125	7	25
alpha-BHC	ND		0.400	0.319		ug/L		80	48 - 120	8	24
cis-Chlordane	ND		0.400	0.331		ug/L		83	44 - 120	11	23

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597315

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	ND		0.400	0.366		ug/L		91	49 - 120	6	24
delta-BHC	ND		0.400	0.356		ug/L		89	50 - 120	6	24
Dieldrin	ND		0.400	0.396		ug/L		99	56 - 130	2	24
Endosulfan I	ND		0.400	0.377		ug/L		94	40 - 126	1	30
Endosulfan II	ND		0.400	0.394		ug/L		98	59 - 140	8	40
Endosulfan sulfate	ND		0.400	0.448		ug/L		112	60 - 134	11	24
Endrin	ND		0.400	0.401		ug/L		100	54 - 135	4	24
Endrin aldehyde	ND		0.400	0.377		ug/L		94	50 - 142	9	28
Endrin ketone	ND		0.400	0.399		ug/L		100	57 - 138	5	26
gamma-BHC (Lindane)	ND		0.400	0.332		ug/L		83	50 - 120	7	24
trans-Chlordane	ND		0.400	0.336		ug/L		84	42 - 120	5	24
Heptachlor	ND		0.400	0.331		ug/L		83	56 - 120	6	25
Heptachlor epoxide	ND		0.400	0.381		ug/L		95	58 - 125	3	23
Methoxychlor	ND		0.400	0.411		ug/L		103	40 - 150	9	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*44*		*20 - 120*
DCB Decachlorobiphenyl	*47*		*20 - 120*
Tetrachloro-m-xylene	*84*		*44 - 120*
Tetrachloro-m-xylene	*73*		*44 - 120*

Lab Sample ID: MB 480-597724/1-A
Matrix: Solid
Analysis Batch: 597956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Aldrin	ND		1.7	0.41	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
alpha-BHC	ND		1.7	0.30	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
beta-BHC	0.473	J	1.7	0.30	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
cis-Chlordane	ND		1.7	0.82	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
delta-BHC	ND		1.7	0.31	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Dieldrin	ND		1.7	0.40	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Endosulfan I	ND		1.7	0.32	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Endosulfan II	ND		1.7	0.30	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Endrin	ND		1.7	0.33	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Endrin ketone	ND		1.7	0.41	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Heptachlor	ND		1.7	0.36	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Methoxychlor	ND		1.7	0.34	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
Toxaphene	ND		17	9.6	ug/Kg		09/24/21 08:13	09/27/21 09:55	1
trans-Chlordane	ND		1.7	0.52	ug/Kg		09/24/21 08:13	09/27/21 09:55	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-597724/1-A
Matrix: Solid
Analysis Batch: 597956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597724

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		45 - 120	09/24/21 08:13	09/27/21 09:55	1
DCB Decachlorobiphenyl	96		45 - 120	09/24/21 08:13	09/27/21 09:55	1
Tetrachloro-m-xylene	76		30 - 124	09/24/21 08:13	09/27/21 09:55	1
Tetrachloro-m-xylene	63		30 - 124	09/24/21 08:13	09/27/21 09:55	1

Lab Sample ID: LCS 480-597724/2-A
Matrix: Solid
Analysis Batch: 597956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD			16.5	15.1		ug/Kg		92	56 - 120		
4,4'-DDE			16.5	13.4		ug/Kg		81	44 - 120		
4,4'-DDT			16.5	14.2		ug/Kg		86	38 - 120		
Aldrin			16.5	13.0		ug/Kg		79	38 - 120		
alpha-BHC			16.5	11.8		ug/Kg		72	39 - 120		
beta-BHC			16.5	13.8		ug/Kg		83	40 - 120		
cis-Chlordane			16.5	12.4		ug/Kg		75	47 - 120		
delta-BHC			16.5	14.2		ug/Kg		86	45 - 120		
Dieldrin			16.5	16.1		ug/Kg		98	58 - 120		
Endosulfan I			16.5	15.1		ug/Kg		91	49 - 120		
Endosulfan II			16.5	16.2		ug/Kg		98	55 - 120		
Endosulfan sulfate			16.5	18.5		ug/Kg		112	49 - 124		
Endrin			16.5	16.0		ug/Kg		97	58 - 120		
Endrin aldehyde			16.5	13.6		ug/Kg		83	37 - 121		
Endrin ketone			16.5	16.7		ug/Kg		101	46 - 123		
gamma-BHC (Lindane)			16.5	12.1		ug/Kg		73	50 - 120		
Heptachlor			16.5	14.4		ug/Kg		87	50 - 120		
Heptachlor epoxide			16.5	14.4		ug/Kg		88	50 - 120		
Methoxychlor			16.5	16.9		ug/Kg		103	58 - 133		
trans-Chlordane			16.5	14.7		ug/Kg		89	48 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	78		45 - 120
DCB Decachlorobiphenyl	90		45 - 120
Tetrachloro-m-xylene	84		30 - 124
Tetrachloro-m-xylene	66		30 - 124

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597956

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD	ND	F1	21.9	ND	F1	ug/Kg	☼	0	37 - 126		
4,4'-DDE	ND		21.9	26.6	J	ug/Kg	☼	NC	34 - 120		
4,4'-DDT	ND		21.9	29.2	J	ug/Kg	☼	NC	43 - 123		
Aldrin	ND		21.9	ND		ug/Kg	☼	NC	37 - 125		
alpha-BHC	ND	F1	21.9	33.2	J F1	ug/Kg	☼	151	39 - 120		
beta-BHC	ND	F1	21.9	25.0	J	ug/Kg	☼	114	36 - 120		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597956

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-Chlordane	ND		21.9	ND		ug/Kg	☼	NC	35 - 120
delta-BHC	ND	F1	21.9	34.0	J F1	ug/Kg	☼	155	34 - 120
Dieldrin	ND		21.9	ND		ug/Kg	☼	NC	45 - 120
Endosulfan I	ND	F1	21.9	ND	F1	ug/Kg	☼	0	39 - 120
Endosulfan II	ND	F1	21.9	ND	F1	ug/Kg	☼	0	34 - 126
Endosulfan sulfate	ND	F1	21.9	ND	F1	ug/Kg	☼	0	27 - 130
Endrin	ND		21.9	ND		ug/Kg	☼	NC	47 - 121
Endrin aldehyde	ND		21.9	ND		ug/Kg	☼	NC	33 - 123
Endrin ketone	ND		21.9	ND		ug/Kg	☼	NC	43 - 126
gamma-BHC (Lindane)	ND	F1	21.9	27.7	J F1	ug/Kg	☼	126	50 - 120
Heptachlor	ND		21.9	ND		ug/Kg	☼	NC	42 - 120
Heptachlor epoxide	ND		21.9	ND		ug/Kg	☼	NC	40 - 120
Methoxychlor	ND		21.9	ND		ug/Kg	☼	NC	44 - 150
trans-Chlordane	ND		21.9	ND		ug/Kg	☼	NC	31 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597956

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597724

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	21.8	ND	F1	ug/Kg	☼	0	37 - 126	NC	21
4,4'-DDE	ND		21.8	26.2	J	ug/Kg	☼	NC	34 - 120	12	18
4,4'-DDT	ND		21.8	30.0	J	ug/Kg	☼	NC	43 - 123	3	25
Aldrin	ND		21.8	ND		ug/Kg	☼	NC	37 - 125	NC	12
alpha-BHC	ND	F1	21.8	32.9	J F1	ug/Kg	☼	151	39 - 120	1	15
beta-BHC	ND	F1	21.8	ND	F1	ug/Kg	☼	0	36 - 120	NC	19
cis-Chlordane	ND		21.8	ND		ug/Kg	☼	NC	35 - 120	NC	23
delta-BHC	ND	F1	21.8	33.8	J F1	ug/Kg	☼	155	34 - 120	1	14
Dieldrin	ND		21.8	ND		ug/Kg	☼	NC	45 - 120	NC	12
Endosulfan I	ND	F1	21.8	ND	F1	ug/Kg	☼	0	39 - 120	NC	18
Endosulfan II	ND	F1	21.8	ND	F1	ug/Kg	☼	0	34 - 126	NC	26
Endosulfan sulfate	ND	F1	21.8	ND	F1	ug/Kg	☼	0	27 - 130	NC	35
Endrin	ND		21.8	ND		ug/Kg	☼	NC	47 - 121	NC	20
Endrin aldehyde	ND		21.8	ND		ug/Kg	☼	NC	33 - 123	NC	47
Endrin ketone	ND		21.8	ND		ug/Kg	☼	NC	43 - 126	NC	37
gamma-BHC (Lindane)	ND	F1	21.8	28.2	J F1	ug/Kg	☼	129	50 - 120	2	12
Heptachlor	ND		21.8	ND		ug/Kg	☼	NC	42 - 120	NC	22
Heptachlor epoxide	ND		21.8	ND		ug/Kg	☼	NC	40 - 120	NC	15
Methoxychlor	ND		21.8	ND		ug/Kg	☼	NC	44 - 150	NC	24
trans-Chlordane	ND		21.8	ND		ug/Kg	☼	NC	31 - 120	NC	15

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597956

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597724

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	0	S1-	45 - 120
DCB Decachlorobiphenyl	0	S1-	45 - 120
Tetrachloro-m-xylene	0	S1-	30 - 124
Tetrachloro-m-xylene	0	S1-	30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-597143/1-A
Matrix: Water
Analysis Batch: 597224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 18:03	1
PCB-1221	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 18:03	1
PCB-1232	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 18:03	1
PCB-1242	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 18:03	1
PCB-1248	ND		0.50	0.18	ug/L		09/21/21 08:58	09/21/21 18:03	1
PCB-1254	ND		0.50	0.25	ug/L		09/21/21 08:58	09/21/21 18:03	1
PCB-1260	ND		0.50	0.25	ug/L		09/21/21 08:58	09/21/21 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		19 - 120	09/21/21 08:58	09/21/21 18:03	1
DCB Decachlorobiphenyl	62		19 - 120	09/21/21 08:58	09/21/21 18:03	1
Tetrachloro-m-xylene	80		39 - 121	09/21/21 08:58	09/21/21 18:03	1
Tetrachloro-m-xylene	73		39 - 121	09/21/21 08:58	09/21/21 18:03	1

Lab Sample ID: LCS 480-597143/2-A
Matrix: Water
Analysis Batch: 597224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.47		ug/L		87	62 - 130		
PCB-1260			4.00	3.75		ug/L		94	56 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	61		19 - 120
DCB Decachlorobiphenyl	51		19 - 120
Tetrachloro-m-xylene	74		39 - 121
Tetrachloro-m-xylene	77		39 - 121

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597224

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		4.00	3.51		ug/L		88	28 - 150		
PCB-1260	ND		4.00	3.28		ug/L		82	25 - 131		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597224

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597143

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	50		19 - 120
DCB Decachlorobiphenyl	42		19 - 120
Tetrachloro-m-xylene	75		39 - 121
Tetrachloro-m-xylene	76		39 - 121

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597224

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.00	4.03		ug/L		101	28 - 150	14	50
PCB-1260	ND		4.00	3.67		ug/L		92	25 - 131	11	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	60		19 - 120
DCB Decachlorobiphenyl	51		19 - 120
Tetrachloro-m-xylene	93		39 - 121
Tetrachloro-m-xylene	91		39 - 121

Lab Sample ID: MB 480-597499/1-A
Matrix: Solid
Analysis Batch: 597667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg		09/23/21 07:21	09/23/21 18:37	1
PCB-1221	ND		0.21	0.041	mg/Kg		09/23/21 07:21	09/23/21 18:37	1
PCB-1232	ND		0.21	0.041	mg/Kg		09/23/21 07:21	09/23/21 18:37	1
PCB-1242	ND		0.21	0.041	mg/Kg		09/23/21 07:21	09/23/21 18:37	1
PCB-1248	ND		0.21	0.041	mg/Kg		09/23/21 07:21	09/23/21 18:37	1
PCB-1254	ND		0.21	0.098	mg/Kg		09/23/21 07:21	09/23/21 18:37	1
PCB-1260	ND		0.21	0.098	mg/Kg		09/23/21 07:21	09/23/21 18:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	124		65 - 174	09/23/21 07:21	09/23/21 18:37	1
DCB Decachlorobiphenyl	108		65 - 174	09/23/21 07:21	09/23/21 18:37	1
Tetrachloro-m-xylene	97		60 - 154	09/23/21 07:21	09/23/21 18:37	1
Tetrachloro-m-xylene	97		60 - 154	09/23/21 07:21	09/23/21 18:37	1

Lab Sample ID: LCS 480-597499/2-A
Matrix: Solid
Analysis Batch: 597667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597499

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.33	3.39		mg/Kg		146	51 - 185
PCB-1260	2.33	3.83		mg/Kg		165	61 - 184

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-597499/2-A
Matrix: Solid
Analysis Batch: 597667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597499

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*176*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*155*		*65 - 174*
Tetrachloro-m-xylene	*145*		*60 - 154*
Tetrachloro-m-xylene	*140*		*60 - 154*

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597667

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		3.05	3.38		mg/Kg	☼	111	50 - 177
PCB-1260	ND		3.05	3.55		mg/Kg	☼	116	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*113*		*60 - 154*
Tetrachloro-m-xylene	*108*		*60 - 154*
DCB Decachlorobiphenyl	*133*		*65 - 174*
DCB Decachlorobiphenyl	*112*		*65 - 174*

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597667

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		3.12	3.05		mg/Kg	☼	98	50 - 177	10	50
PCB-1260	ND		3.12	3.23		mg/Kg	☼	104	33 - 200	9	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*105*		*60 - 154*
Tetrachloro-m-xylene	*109*		*60 - 154*
DCB Decachlorobiphenyl	*135*		*65 - 174*
DCB Decachlorobiphenyl	*112*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-597006/1-A
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.2	ug/Kg		09/20/21 07:12	09/21/21 13:24	1
2,4-D	ND		16	10	ug/Kg		09/20/21 07:12	09/21/21 13:24	1
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		09/20/21 07:12	09/21/21 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*09/20/21 07:12*	*09/21/21 13:24*	*1*
2,4-Dichlorophenylacetic acid	*67*		*28 - 129*	*09/20/21 07:12*	*09/21/21 13:24*	*1*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-597006/2-A
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597006

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			65.8	40.0		ug/Kg		61	41 - 120		
2,4-D			65.8	48.6		ug/Kg		74	40 - 120		
Silvex (2,4,5-TP)			65.8	42.9		ug/Kg		65	39 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*64*		*28 - 129*
2,4-Dichlorophenylacetic acid	*82*		*28 - 129*

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T	ND		87.9	47.5		ug/Kg	☼	54	29 - 123		
2,4-D	ND		87.9	59.5		ug/Kg	☼	68	32 - 115		
Silvex (2,4,5-TP)	ND		87.9	51.1		ug/Kg	☼	58	22 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597172

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		86.3	51.1		ug/Kg	☼	59	29 - 123	7	50
2,4-D	ND		86.3	63.9		ug/Kg	☼	74	32 - 115	7	50
Silvex (2,4,5-TP)	ND		86.3	54.8		ug/Kg	☼	64	22 - 140	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*
2,4-Dichlorophenylacetic acid	*93*		*28 - 129*

Lab Sample ID: MB 480-597146/1-A
Matrix: Water
Analysis Batch: 597319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		09/21/21 09:14	09/22/21 10:49	1
2,4-D	ND		0.50	0.17	ug/L		09/21/21 09:14	09/22/21 10:49	1
Dichlorprop	ND		0.50	0.12	ug/L		09/21/21 09:14	09/22/21 10:49	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		09/21/21 09:14	09/22/21 10:49	1
Dinoseb	ND		0.50	0.14	ug/L		09/21/21 09:14	09/22/21 10:49	1
Pentachlorophenol	ND		0.50	0.049	ug/L		09/21/21 09:14	09/22/21 10:49	1
Picloram	ND		0.50	0.072	ug/L		09/21/21 09:14	09/22/21 10:49	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 480-597146/1-A
Matrix: Water
Analysis Batch: 597319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597146

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79		48 - 132	09/21/21 09:14	09/22/21 10:49	1
2,4-Dichlorophenylacetic acid	65		48 - 132	09/21/21 09:14	09/22/21 10:49	1

Lab Sample ID: LCS 480-597146/2-A
Matrix: Water
Analysis Batch: 597319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	2.00	1.36		ug/L		68	41 - 150
2,4-D	2.00	1.54		ug/L		77	36 - 150
Dichlorprop	2.00	1.51		ug/L		76	33 - 150
Silvex (2,4,5-TP)	2.00	1.35		ug/L		68	49 - 150
Dinoseb	2.00	1.56		ug/L		78	21 - 120
Pentachlorophenol	2.00	1.29		ug/L		65	29 - 143
Picloram	2.00	1.48		ug/L		74	34 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	94		48 - 132
2,4-Dichlorophenylacetic acid	85		48 - 132

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597319

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	ND		1.90	1.12		ug/L		59	34 - 138
Silvex (2,4,5-TP)	ND		1.90	1.15		ug/L		60	25 - 146
2,4-D	ND		1.90	1.51		ug/L		79	31 - 150
Dichlorprop	ND	F2	1.90	1.17		ug/L		62	26 - 150
Dinoseb	ND		1.90	1.24		ug/L		65	10 - 143
Pentachlorophenol	ND		1.90	1.11		ug/L		59	27 - 122
Picloram	ND		1.90	1.30		ug/L		68	33 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	66		48 - 132
2,4-Dichlorophenylacetic acid	94		48 - 132

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597319

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		2.00	0.791		ug/L		40	34 - 138	34	50
Silvex (2,4,5-TP)	ND		2.00	0.893		ug/L		45	25 - 146	25	50
2,4-D	ND		2.00	1.08		ug/L		54	31 - 150	33	50
Dichlorprop	ND	F2	2.00	0.679	F2	ug/L		34	26 - 150	53	50
Dinoseb	ND		2.00	0.827		ug/L		41	10 - 143	40	50
Pentachlorophenol	ND		2.00	0.709		ug/L		35	27 - 122	44	50

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597319

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Picloram	ND		2.00	0.970		ug/L		49	33 - 150	29	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*33*	*S1-*	*48 - 132*
2,4-Dichlorophenylacetic acid	*42*	*S1-*	*48 - 132*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-596969/1-A
Matrix: Water
Analysis Batch: 597384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		09/21/21 09:44	09/21/21 23:56	1
Antimony	ND		0.020	0.0068	mg/L		09/21/21 09:44	09/21/21 23:56	1
Arsenic	ND		0.015	0.0056	mg/L		09/21/21 09:44	09/21/21 23:56	1
Barium	ND		0.0020	0.00070	mg/L		09/21/21 09:44	09/21/21 23:56	1
Beryllium	ND		0.0020	0.00030	mg/L		09/21/21 09:44	09/21/21 23:56	1
Cadmium	ND		0.0020	0.00050	mg/L		09/21/21 09:44	09/21/21 23:56	1
Calcium	0.104	J	0.50	0.10	mg/L		09/21/21 09:44	09/21/21 23:56	1
Chromium	ND		0.0040	0.0010	mg/L		09/21/21 09:44	09/21/21 23:56	1
Cobalt	ND		0.0040	0.00063	mg/L		09/21/21 09:44	09/21/21 23:56	1
Copper	ND		0.010	0.0016	mg/L		09/21/21 09:44	09/21/21 23:56	1
Iron	ND		0.050	0.019	mg/L		09/21/21 09:44	09/21/21 23:56	1
Lead	ND		0.010	0.0030	mg/L		09/21/21 09:44	09/21/21 23:56	1
Magnesium	ND		0.20	0.043	mg/L		09/21/21 09:44	09/21/21 23:56	1
Manganese	0.000520	J	0.0030	0.00040	mg/L		09/21/21 09:44	09/21/21 23:56	1
Nickel	ND		0.010	0.0013	mg/L		09/21/21 09:44	09/21/21 23:56	1
Selenium	ND		0.025	0.0087	mg/L		09/21/21 09:44	09/21/21 23:56	1
Silver	ND		0.0060	0.0017	mg/L		09/21/21 09:44	09/21/21 23:56	1
Sodium	ND		1.0	0.32	mg/L		09/21/21 09:44	09/21/21 23:56	1
Thallium	ND		0.020	0.010	mg/L		09/21/21 09:44	09/21/21 23:56	1
Vanadium	ND		0.0050	0.0015	mg/L		09/21/21 09:44	09/21/21 23:56	1
Zinc	0.00170	J	0.010	0.0015	mg/L		09/21/21 09:44	09/21/21 23:56	1

Lab Sample ID: MB 480-596969/1-A
Matrix: Water
Analysis Batch: 597546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		09/21/21 09:44	09/23/21 00:02	1

Lab Sample ID: LCS 480-596969/2-A
Matrix: Water
Analysis Batch: 597384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.22		mg/L		102	80 - 120
Antimony	0.200	0.214		mg/L		107	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-596969/2-A
Matrix: Water
Analysis Batch: 597384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.206		mg/L		103	80 - 120
Barium	0.200	0.219		mg/L		109	80 - 120
Beryllium	0.200	0.213		mg/L		107	80 - 120
Cadmium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	10.13		mg/L		101	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.201		mg/L		101	80 - 120
Iron	10.0	10.37		mg/L		104	80 - 120
Lead	0.200	0.202		mg/L		101	80 - 120
Magnesium	10.0	10.48		mg/L		105	80 - 120
Manganese	0.200	0.210		mg/L		105	80 - 120
Nickel	0.200	0.196		mg/L		98	80 - 120
Selenium	0.200	0.202		mg/L		101	80 - 120
Silver	0.0500	0.0484		mg/L		97	80 - 120
Sodium	10.0	9.99		mg/L		100	80 - 120
Thallium	0.200	0.209		mg/L		104	80 - 120
Vanadium	0.200	0.200		mg/L		100	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120

Lab Sample ID: LCS 480-596969/2-A
Matrix: Water
Analysis Batch: 597546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	9.77		mg/L		98	80 - 120

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597384

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	3.8	F1	10.0	11.55		mg/L		78	75 - 125
Antimony	ND		0.200	0.219		mg/L		110	75 - 125
Arsenic	ND		0.200	0.212		mg/L		106	75 - 125
Barium	0.048		0.200	0.251		mg/L		101	75 - 125
Beryllium	ND		0.200	0.220		mg/L		110	75 - 125
Cadmium	ND		0.200	0.205		mg/L		102	75 - 125
Calcium	63.9	B	10.0	67.47	4	mg/L		36	75 - 125
Chromium	0.010		0.200	0.212		mg/L		101	75 - 125
Cobalt	0.0019	J	0.200	0.205		mg/L		102	75 - 125
Copper	0.0050	J	0.200	0.206		mg/L		100	75 - 125
Iron	3.7	F1	10.0	11.40		mg/L		77	75 - 125
Lead	0.0049	J	0.200	0.207		mg/L		101	75 - 125
Magnesium	8.2		10.0	17.89		mg/L		97	75 - 125
Manganese	0.20	B F1	0.200	0.276	F1	mg/L		39	75 - 125
Nickel	0.0057	J	0.200	0.204		mg/L		99	75 - 125
Selenium	ND		0.200	0.204		mg/L		102	75 - 125
Silver	ND		0.0500	0.0498		mg/L		100	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597384

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	65.0		10.0	74.98	4	mg/L		100	75 - 125
Thallium	ND		0.200	0.211		mg/L		106	75 - 125
Vanadium	0.011		0.200	0.214		mg/L		101	75 - 125
Zinc	0.016	B	0.200	0.211		mg/L		97	75 - 125

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597546

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	3.6		10.0	12.73		mg/L		91	75 - 125

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597384

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	3.8	F1	10.0	10.84	F1	mg/L		71	75 - 125	6	20
Antimony	ND		0.200	0.222		mg/L		111	75 - 125	1	20
Arsenic	ND		0.200	0.216		mg/L		108	75 - 125	2	20
Barium	0.048		0.200	0.251		mg/L		102	75 - 125	0	20
Beryllium	ND		0.200	0.224		mg/L		112	75 - 125	2	20
Cadmium	ND		0.200	0.209		mg/L		104	75 - 125	2	20
Calcium	63.9	B	10.0	65.58	4	mg/L		17	75 - 125	3	20
Chromium	0.010		0.200	0.215		mg/L		102	75 - 125	1	20
Cobalt	0.0019	J	0.200	0.208		mg/L		103	75 - 125	1	20
Copper	0.0050	J	0.200	0.210		mg/L		102	75 - 125	2	20
Iron	3.7	F1	10.0	10.87	F1	mg/L		71	75 - 125	5	20
Lead	0.0049	J	0.200	0.210		mg/L		102	75 - 125	1	20
Magnesium	8.2		10.0	17.96		mg/L		98	75 - 125	0	20
Manganese	0.20	B F1	0.200	0.235	F1	mg/L		18	75 - 125	16	20
Nickel	0.0057	J	0.200	0.207		mg/L		101	75 - 125	2	20
Selenium	ND		0.200	0.211		mg/L		105	75 - 125	3	20
Silver	ND		0.0500	0.0507		mg/L		101	75 - 125	2	20
Sodium	65.0		10.0	75.57	4	mg/L		106	75 - 125	1	20
Thallium	ND		0.200	0.215		mg/L		107	75 - 125	1	20
Vanadium	0.011		0.200	0.215		mg/L		102	75 - 125	1	20
Zinc	0.016	B	0.200	0.211		mg/L		98	75 - 125	0	20

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597546

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 596969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	3.6		10.0	12.68		mg/L		90	75 - 125	0	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-597083/1-A
Matrix: Solid
Analysis Batch: 597372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.3	4.5	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Antimony	ND		15.5	0.41	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Arsenic	ND		2.1	0.41	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Barium	ND		0.52	0.11	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Beryllium	ND		0.21	0.029	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Cadmium	ND		0.21	0.031	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Calcium	3.83	J	51.6	3.4	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Chromium	ND		0.52	0.21	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Cobalt	ND		0.52	0.052	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Copper	ND		1.0	0.22	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Iron	ND	^+	10.3	3.6	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Lead	ND		1.0	0.25	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Magnesium	ND		20.6	0.96	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Manganese	ND		0.21	0.033	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Nickel	ND		5.2	0.24	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Potassium	ND		31.0	20.6	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Selenium	ND		4.1	0.41	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Silver	ND		0.62	0.21	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Sodium	15.25	J	145	13.4	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Thallium	ND		6.2	0.31	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Vanadium	ND		0.52	0.11	mg/Kg		09/20/21 17:10	09/21/21 21:37	1
Zinc	ND		2.1	0.66	mg/Kg		09/20/21 17:10	09/21/21 21:37	1

Lab Sample ID: LCSSRM 480-597083/2-A
Matrix: Solid
Analysis Batch: 597372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597083

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8871		mg/Kg		108.3	49.6 - 149.0
Antimony	110	98.73		mg/Kg		89.8	23.5 - 304.5
Arsenic	162	142.8		mg/Kg		88.1	67.3 - 125.3
Barium	138	218.1		mg/Kg		158.0	129.7 - 215.9
Beryllium	157	167.5		mg/Kg		106.7	80.9 - 135.0
Cadmium	135	145.1		mg/Kg		107.5	76.3 - 126.7
Calcium	4790	4419		mg/Kg		92.2	72.2 - 126.7
Chromium	117	152.2		mg/Kg		130.1	92.3 - 170.9
Cobalt	92.6	132.8		mg/Kg		143.4	98.1 - 163.1
Copper	143	50.36		mg/Kg		35.2	28.7 - 48.0
Iron	15100	13260	^+	mg/Kg		87.8	32.6 - 153.6
Lead	77.6	133.0		mg/Kg		171.4	120.2 - 215.2

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-597083/2-A
Matrix: Solid
Analysis Batch: 597372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597083

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	2320	2258		mg/Kg		97.3	62.1 - 137.9
Manganese	319	265.0		mg/Kg		83.1	62.4 - 106.6
Nickel	79.9	60.26		mg/Kg		75.4	47.2 - 87.6
Potassium	2050	1970		mg/Kg		96.1	58.0 - 139.0
Selenium	172	156.0		mg/Kg		90.7	65.7 - 128.5
Silver	24.7	30.03		mg/Kg		121.6	93.1 - 178.5
Sodium	137	146.1		mg/Kg		106.7	33.9 - 160.6
Thallium	88.0	126.3		mg/Kg		143.5	86.5 - 167.0
Vanadium	99.9	61.75		mg/Kg		61.8	37.0 - 88.4
Zinc	312	140.7		mg/Kg		45.1	35.6 - 65.7

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597372

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	55.2	39.15	F1	mg/Kg	☼	71	75 - 125
Arsenic	6.6		55.2	60.20		mg/Kg	☼	97	75 - 125
Barium	67.1	F1	55.2	142.1	F1	mg/Kg	☼	136	75 - 125
Beryllium	0.99		55.2	52.65		mg/Kg	☼	94	75 - 125
Cadmium	0.55		55.2	52.58		mg/Kg	☼	94	75 - 125
Calcium	90200	B	2760	92770	4	mg/Kg	☼	92	75 - 125
Chromium	24.7		55.2	76.91		mg/Kg	☼	95	75 - 125
Cobalt	5.3		55.2	61.27		mg/Kg	☼	101	75 - 125
Copper	28.5		55.2	80.10		mg/Kg	☼	94	75 - 125
Iron	20500	^+	2760	22540	4	mg/Kg	☼	74	75 - 125
Lead	42.2		55.2	92.91		mg/Kg	☼	92	75 - 125
Magnesium	13200		2760	20570	4	mg/Kg	☼	266	75 - 125
Manganese	479		55.2	517.3	4	mg/Kg	☼	70	75 - 125
Nickel	31.5		55.2	92.25		mg/Kg	☼	110	75 - 125
Potassium	1950	F1	2760	6589	F1	mg/Kg	☼	168	75 - 125
Selenium	ND		55.2	48.68		mg/Kg	☼	88	75 - 125
Silver	ND		13.8	12.93		mg/Kg	☼	94	75 - 125
Sodium	271	B	2770	3006		mg/Kg	☼	99	75 - 125
Thallium	ND		55.2	54.67		mg/Kg	☼	99	75 - 125
Vanadium	24.5		55.2	81.89		mg/Kg	☼	104	75 - 125
Zinc	159	F1 F2	55.2	260.1	F1	mg/Kg	☼	182	75 - 125

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597551

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8630	F1	2760	16440	F1	mg/Kg	☼	283	75 - 125

Method: 6010C - Metals (ICP)

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597372

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	55.5	38.52	F1	mg/Kg	☼	69	75 - 125	2	20
Arsenic	6.6		55.5	61.80		mg/Kg	☼	99	75 - 125	3	20
Barium	67.1	F1	55.5	141.9	F1	mg/Kg	☼	135	75 - 125	0	20
Beryllium	0.99		55.5	54.55		mg/Kg	☼	96	75 - 125	4	20
Cadmium	0.55		55.5	52.92		mg/Kg	☼	94	75 - 125	1	20
Calcium	90200	B	2780	99910	4	mg/Kg	☼	349	75 - 125	7	20
Chromium	24.7		55.5	78.49		mg/Kg	☼	97	75 - 125	2	20
Cobalt	5.3		55.5	62.64		mg/Kg	☼	103	75 - 125	2	20
Copper	28.5		55.5	83.11		mg/Kg	☼	98	75 - 125	4	20
Iron	20500	^+	2780	24130	4	mg/Kg	☼	131	75 - 125	7	20
Lead	42.2		55.5	94.59		mg/Kg	☼	94	75 - 125	2	20
Magnesium	13200		2780	17080	4	mg/Kg	☼	139	75 - 125	19	20
Manganese	479		55.5	539.0	4	mg/Kg	☼	108	75 - 125	4	20
Nickel	31.5		55.5	90.68		mg/Kg	☼	107	75 - 125	2	20
Potassium	1950	F1	2780	7005	F1	mg/Kg	☼	182	75 - 125	6	20
Selenium	ND		55.5	49.67		mg/Kg	☼	89	75 - 125	2	20
Silver	ND		13.9	12.89		mg/Kg	☼	93	75 - 125	0	20
Sodium	271	B	2780	3024		mg/Kg	☼	99	75 - 125	1	20
Thallium	ND		55.5	55.61		mg/Kg	☼	100	75 - 125	2	20
Vanadium	24.5		55.5	84.87		mg/Kg	☼	109	75 - 125	4	20
Zinc	159	F1 F2	55.5	170.5	F1 F2	mg/Kg	☼	20	75 - 125	42	20

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597551

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	8630	F1	2780	16930	F1	mg/Kg	☼	299	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-597419/1-A
Matrix: Water
Analysis Batch: 597476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/22/21 13:54	09/22/21 17:17	1

Lab Sample ID: LCS 480-597419/2-A
Matrix: Water
Analysis Batch: 597476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597419

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00672		mg/L		101	80 - 120		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-189753-1 MS
Matrix: Water
Analysis Batch: 597476

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597419

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00675		mg/L		101	80 - 120		

Lab Sample ID: 480-189753-1 MSD
Matrix: Water
Analysis Batch: 597476

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 597419

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00668		mg/L		100	80 - 120	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-597656/1-A
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		09/24/21 14:07	09/24/21 15:47	1

Lab Sample ID: LCSSRM 480-597656/2-A ^10
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597656

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	18.51		mg/Kg		68.1	59.9 - 140.1		

Lab Sample ID: 480-189753-6 MS
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.15		0.475	0.615		mg/Kg	☼	98	80 - 120		

Lab Sample ID: 480-189753-6 MSD
Matrix: Solid
Analysis Batch: 597862

Client Sample ID: SED-3
Prep Type: Total/NA
Prep Batch: 597656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.15		0.494	0.641		mg/Kg	☼	100	80 - 120	4	20

GC/MS VOA

Prep Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	5035A_L	
480-189753-5	SED-2	Total/NA	Solid	5035A_L	
480-189753-6	SED-3	Total/NA	Solid	5035A_L	
480-189753-7	BD SED	Total/NA	Solid	5035A_L	
MB 480-596895/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-596895/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-189753-6 MS	SED-3	Total/NA	Solid	5035A_L	
480-189753-6 MSD	SED-3	Total/NA	Solid	5035A_L	

Analysis Batch: 597102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	8260C	596895
480-189753-5	SED-2	Total/NA	Solid	8260C	596895
480-189753-6	SED-3	Total/NA	Solid	8260C	596895
480-189753-7	BD SED	Total/NA	Solid	8260C	596895
MB 480-596895/2-A	Method Blank	Total/NA	Solid	8260C	596895
LCS 480-596895/1-A	Lab Control Sample	Total/NA	Solid	8260C	596895
480-189753-6 MS	SED-3	Total/NA	Solid	8260C	596895
480-189753-6 MSD	SED-3	Total/NA	Solid	8260C	596895

Analysis Batch: 597823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	8260C	
480-189753-2	SW-2	Total/NA	Water	8260C	
480-189753-3	BD SW	Total/NA	Water	8260C	
MB 480-597823/8	Method Blank	Total/NA	Water	8260C	
LCS 480-597823/6	Lab Control Sample	Total/NA	Water	8260C	
480-189753-1 MS	SW-1	Total/NA	Water	8260C	
480-189753-1 MSD	SW-1	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 597023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	3510C	
480-189753-2	SW-2	Total/NA	Water	3510C	
480-189753-3	BD SW	Total/NA	Water	3510C	
MB 480-597023/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-597023/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-189753-1 MS	SW-1	Total/NA	Water	3510C	
480-189753-1 MSD	SW-1	Total/NA	Water	3510C	

Analysis Batch: 597230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	8270D	597023
480-189753-2	SW-2	Total/NA	Water	8270D	597023
480-189753-3	BD SW	Total/NA	Water	8270D	597023
MB 480-597023/1-A	Method Blank	Total/NA	Water	8270D	597023
LCS 480-597023/2-A	Lab Control Sample	Total/NA	Water	8270D	597023
480-189753-1 MS	SW-1	Total/NA	Water	8270D	597023
480-189753-1 MSD	SW-1	Total/NA	Water	8270D	597023

GC/MS Semi VOA

Prep Batch: 597244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	3550C	
480-189753-5	SED-2	Total/NA	Solid	3550C	
480-189753-6	SED-3	Total/NA	Solid	3550C	
480-189753-7	BD SED	Total/NA	Solid	3550C	
MB 480-597244/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-597244/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189753-6 MS	SED-3	Total/NA	Solid	3550C	
480-189753-6 MSD	SED-3	Total/NA	Solid	3550C	

Analysis Batch: 597424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-5	SED-2	Total/NA	Solid	8270D	597244
480-189753-6	SED-3	Total/NA	Solid	8270D	597244
480-189753-7	BD SED	Total/NA	Solid	8270D	597244
MB 480-597244/1-A	Method Blank	Total/NA	Solid	8270D	597244
LCS 480-597244/2-A	Lab Control Sample	Total/NA	Solid	8270D	597244
480-189753-6 MS	SED-3	Total/NA	Solid	8270D	597244
480-189753-6 MSD	SED-3	Total/NA	Solid	8270D	597244

Analysis Batch: 597615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	8270D	597244

GC Semi VOA

Prep Batch: 597006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	8151A	
480-189753-5	SED-2	Total/NA	Solid	8151A	
480-189753-6	SED-3	Total/NA	Solid	8151A	
480-189753-7	BD SED	Total/NA	Solid	8151A	
MB 480-597006/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-597006/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-189753-6 MS	SED-3	Total/NA	Solid	8151A	
480-189753-6 MSD	SED-3	Total/NA	Solid	8151A	

Prep Batch: 597143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	3510C	
480-189753-2	SW-2	Total/NA	Water	3510C	
480-189753-3	BD SW	Total/NA	Water	3510C	
MB 480-597143/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-597143/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-189753-1 MS	SW-1	Total/NA	Water	3510C	
480-189753-1 MSD	SW-1	Total/NA	Water	3510C	

Prep Batch: 597146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	8151A	
480-189753-2	SW-2	Total/NA	Water	8151A	
480-189753-3	BD SW	Total/NA	Water	8151A	

GC Semi VOA (Continued)

Prep Batch: 597146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-597146/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-597146/2-A	Lab Control Sample	Total/NA	Water	8151A	
480-189753-1 MS	SW-1	Total/NA	Water	8151A	
480-189753-1 MSD	SW-1	Total/NA	Water	8151A	

Analysis Batch: 597172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	8151A	597006
480-189753-5	SED-2	Total/NA	Solid	8151A	597006
480-189753-6	SED-3	Total/NA	Solid	8151A	597006
480-189753-7	BD SED	Total/NA	Solid	8151A	597006
MB 480-597006/1-A	Method Blank	Total/NA	Solid	8151A	597006
LCS 480-597006/2-A	Lab Control Sample	Total/NA	Solid	8151A	597006
480-189753-6 MS	SED-3	Total/NA	Solid	8151A	597006
480-189753-6 MSD	SED-3	Total/NA	Solid	8151A	597006

Analysis Batch: 597224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	8082A	597143
480-189753-2	SW-2	Total/NA	Water	8082A	597143
480-189753-3	BD SW	Total/NA	Water	8082A	597143
MB 480-597143/1-A	Method Blank	Total/NA	Water	8082A	597143
LCS 480-597143/2-A	Lab Control Sample	Total/NA	Water	8082A	597143
480-189753-1 MS	SW-1	Total/NA	Water	8082A	597143
480-189753-1 MSD	SW-1	Total/NA	Water	8082A	597143

Analysis Batch: 597315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	8081B	597330
480-189753-2	SW-2	Total/NA	Water	8081B	597330
480-189753-3	BD SW	Total/NA	Water	8081B	597330
MB 480-597330/1-A	Method Blank	Total/NA	Water	8081B	597330
LCS 480-597330/2-A	Lab Control Sample	Total/NA	Water	8081B	597330
480-189753-1 MS	SW-1	Total/NA	Water	8081B	597330
480-189753-1 MSD	SW-1	Total/NA	Water	8081B	597330

Analysis Batch: 597319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	8151A	597146
480-189753-2	SW-2	Total/NA	Water	8151A	597146
480-189753-3	BD SW	Total/NA	Water	8151A	597146
MB 480-597146/1-A	Method Blank	Total/NA	Water	8151A	597146
LCS 480-597146/2-A	Lab Control Sample	Total/NA	Water	8151A	597146
480-189753-1 MS	SW-1	Total/NA	Water	8151A	597146
480-189753-1 MSD	SW-1	Total/NA	Water	8151A	597146

Prep Batch: 597330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	3510C	
480-189753-2	SW-2	Total/NA	Water	3510C	
480-189753-3	BD SW	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 597330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-597330/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-597330/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-189753-1 MS	SW-1	Total/NA	Water	3510C	
480-189753-1 MSD	SW-1	Total/NA	Water	3510C	

Prep Batch: 597499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	3550C	
480-189753-5	SED-2	Total/NA	Solid	3550C	
480-189753-6	SED-3	Total/NA	Solid	3550C	
480-189753-7	BD SED	Total/NA	Solid	3550C	
MB 480-597499/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-597499/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189753-6 MS	SED-3	Total/NA	Solid	3550C	
480-189753-6 MSD	SED-3	Total/NA	Solid	3550C	

Analysis Batch: 597667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	8082A	597499
480-189753-5	SED-2	Total/NA	Solid	8082A	597499
480-189753-6	SED-3	Total/NA	Solid	8082A	597499
480-189753-7	BD SED	Total/NA	Solid	8082A	597499
MB 480-597499/1-A	Method Blank	Total/NA	Solid	8082A	597499
LCS 480-597499/2-A	Lab Control Sample	Total/NA	Solid	8082A	597499
480-189753-6 MS	SED-3	Total/NA	Solid	8082A	597499
480-189753-6 MSD	SED-3	Total/NA	Solid	8082A	597499

Prep Batch: 597724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	3550C	
480-189753-5	SED-2	Total/NA	Solid	3550C	
480-189753-6	SED-3	Total/NA	Solid	3550C	
480-189753-7	BD SED	Total/NA	Solid	3550C	
MB 480-597724/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-597724/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-189753-6 MS	SED-3	Total/NA	Solid	3550C	
480-189753-6 MSD	SED-3	Total/NA	Solid	3550C	

Analysis Batch: 597956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	8081B	597724
480-189753-5	SED-2	Total/NA	Solid	8081B	597724
480-189753-6	SED-3	Total/NA	Solid	8081B	597724
480-189753-7	BD SED	Total/NA	Solid	8081B	597724
MB 480-597724/1-A	Method Blank	Total/NA	Solid	8081B	597724
LCS 480-597724/2-A	Lab Control Sample	Total/NA	Solid	8081B	597724
480-189753-6 MS	SED-3	Total/NA	Solid	8081B	597724
480-189753-6 MSD	SED-3	Total/NA	Solid	8081B	597724

Metals

Prep Batch: 596969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	3005A	
480-189753-2	SW-2	Total/NA	Water	3005A	
480-189753-3	BD SW	Total/NA	Water	3005A	
MB 480-596969/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-596969/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-189753-1 MS	SW-1	Total/NA	Water	3005A	
480-189753-1 MSD	SW-1	Total/NA	Water	3005A	

Prep Batch: 597083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	3050B	
480-189753-5	SED-2	Total/NA	Solid	3050B	
480-189753-6	SED-3	Total/NA	Solid	3050B	
480-189753-7	BD SED	Total/NA	Solid	3050B	
MB 480-597083/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-597083/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-189753-6 MS	SED-3	Total/NA	Solid	3050B	
480-189753-6 MSD	SED-3	Total/NA	Solid	3050B	

Analysis Batch: 597372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	6010C	597083
480-189753-5	SED-2	Total/NA	Solid	6010C	597083
480-189753-6	SED-3	Total/NA	Solid	6010C	597083
480-189753-7	BD SED	Total/NA	Solid	6010C	597083
MB 480-597083/1-A	Method Blank	Total/NA	Solid	6010C	597083
LCSSRM 480-597083/2-A	Lab Control Sample	Total/NA	Solid	6010C	597083
480-189753-6 MS	SED-3	Total/NA	Solid	6010C	597083
480-189753-6 MSD	SED-3	Total/NA	Solid	6010C	597083

Analysis Batch: 597384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	6010C	596969
480-189753-2	SW-2	Total/NA	Water	6010C	596969
480-189753-3	BD SW	Total/NA	Water	6010C	596969
MB 480-596969/1-A	Method Blank	Total/NA	Water	6010C	596969
LCS 480-596969/2-A	Lab Control Sample	Total/NA	Water	6010C	596969
480-189753-1 MS	SW-1	Total/NA	Water	6010C	596969
480-189753-1 MSD	SW-1	Total/NA	Water	6010C	596969

Prep Batch: 597419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	7470A	
480-189753-2	SW-2	Total/NA	Water	7470A	
480-189753-3	BD SW	Total/NA	Water	7470A	
MB 480-597419/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-597419/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-189753-1 MS	SW-1	Total/NA	Water	7470A	
480-189753-1 MSD	SW-1	Total/NA	Water	7470A	

Metals

Analysis Batch: 597476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	7470A	597419
480-189753-2	SW-2	Total/NA	Water	7470A	597419
480-189753-3	BD SW	Total/NA	Water	7470A	597419
MB 480-597419/1-A	Method Blank	Total/NA	Water	7470A	597419
LCS 480-597419/2-A	Lab Control Sample	Total/NA	Water	7470A	597419
480-189753-1 MS	SW-1	Total/NA	Water	7470A	597419
480-189753-1 MSD	SW-1	Total/NA	Water	7470A	597419

Analysis Batch: 597546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-1	SW-1	Total/NA	Water	6010C	596969
480-189753-2	SW-2	Total/NA	Water	6010C	596969
480-189753-3	BD SW	Total/NA	Water	6010C	596969
MB 480-596969/1-A	Method Blank	Total/NA	Water	6010C	596969
LCS 480-596969/2-A	Lab Control Sample	Total/NA	Water	6010C	596969
480-189753-1 MS	SW-1	Total/NA	Water	6010C	596969
480-189753-1 MSD	SW-1	Total/NA	Water	6010C	596969

Analysis Batch: 597551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-5	SED-2	Total/NA	Solid	6010C	597083
480-189753-6	SED-3	Total/NA	Solid	6010C	597083
480-189753-7	BD SED	Total/NA	Solid	6010C	597083
480-189753-6 MS	SED-3	Total/NA	Solid	6010C	597083
480-189753-6 MSD	SED-3	Total/NA	Solid	6010C	597083

Prep Batch: 597656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	7471B	
480-189753-5	SED-2	Total/NA	Solid	7471B	
480-189753-6	SED-3	Total/NA	Solid	7471B	
480-189753-7	BD SED	Total/NA	Solid	7471B	
MB 480-597656/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-597656/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	
480-189753-6 MS	SED-3	Total/NA	Solid	7471B	
480-189753-6 MSD	SED-3	Total/NA	Solid	7471B	

Analysis Batch: 597862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	7471B	597656
480-189753-5	SED-2	Total/NA	Solid	7471B	597656
480-189753-6	SED-3	Total/NA	Solid	7471B	597656
480-189753-7	BD SED	Total/NA	Solid	7471B	597656
MB 480-597656/1-A	Method Blank	Total/NA	Solid	7471B	597656
LCSSRM 480-597656/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	597656
480-189753-6 MS	SED-3	Total/NA	Solid	7471B	597656
480-189753-6 MSD	SED-3	Total/NA	Solid	7471B	597656

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189753-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

General Chemistry

Analysis Batch: 597096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189753-4	SED-1	Total/NA	Solid	Moisture	
480-189753-5	SED-2	Total/NA	Solid	Moisture	
480-189753-6	SED-3	Total/NA	Solid	Moisture	
480-189753-7	BD SED	Total/NA	Solid	Moisture	
480-189753-6 MS	SED-3	Total/NA	Solid	Moisture	
480-189753-6 MSD	SED-3	Total/NA	Solid	Moisture	

Client Sample ID: SW-1

Lab Sample ID: 480-189753-1

Date Collected: 09/17/21 11:00

Matrix: Water

Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	597823	09/25/21 06:24	CRL	TAL BUF
Total/NA	Prep	3510C			597023	09/20/21 08:51	JMP	TAL BUF
Total/NA	Analysis	8270D		1	597230	09/22/21 03:52	PJQ	TAL BUF
Total/NA	Prep	3510C			597330	09/22/21 09:02	JMP	TAL BUF
Total/NA	Analysis	8081B		1	597315	09/22/21 15:11	JLS	TAL BUF
Total/NA	Prep	3510C			597143	09/21/21 08:58	JMP	TAL BUF
Total/NA	Analysis	8082A		1	597224	09/21/21 18:54	W1T	TAL BUF
Total/NA	Prep	8151A			597146	09/21/21 09:14	JMP	TAL BUF
Total/NA	Analysis	8151A		1	597319	09/22/21 12:48	MAN	TAL BUF
Total/NA	Prep	3005A			596969	09/21/21 09:44	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597546	09/23/21 00:10	LMH	TAL BUF
Total/NA	Prep	3005A			596969	09/21/21 09:44	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597384	09/22/21 00:15	LMH	TAL BUF
Total/NA	Prep	7470A			597419	09/22/21 13:54	BMB	TAL BUF
Total/NA	Analysis	7470A		1	597476	09/22/21 17:27	BMB	TAL BUF

Client Sample ID: SW-2

Lab Sample ID: 480-189753-2

Date Collected: 09/17/21 11:15

Matrix: Water

Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	597823	09/25/21 06:47	CRL	TAL BUF
Total/NA	Prep	3510C			597023	09/20/21 08:51	JMP	TAL BUF
Total/NA	Analysis	8270D		1	597230	09/22/21 11:42	PJQ	TAL BUF
Total/NA	Prep	3510C			597330	09/22/21 09:02	JMP	TAL BUF
Total/NA	Analysis	8081B		1	597315	09/22/21 16:29	JLS	TAL BUF
Total/NA	Prep	3510C			597143	09/21/21 08:58	JMP	TAL BUF
Total/NA	Analysis	8082A		1	597224	09/21/21 21:15	W1T	TAL BUF
Total/NA	Prep	8151A			597146	09/21/21 09:14	JMP	TAL BUF
Total/NA	Analysis	8151A		1	597319	09/22/21 13:17	MAN	TAL BUF
Total/NA	Prep	3005A			596969	09/21/21 09:44	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597546	09/23/21 00:40	LMH	TAL BUF
Total/NA	Prep	3005A			596969	09/21/21 09:44	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597384	09/22/21 00:33	LMH	TAL BUF
Total/NA	Prep	7470A			597419	09/22/21 13:54	BMB	TAL BUF
Total/NA	Analysis	7470A		1	597476	09/22/21 17:33	BMB	TAL BUF

Client Sample ID: BD SW

Lab Sample ID: 480-189753-3

Date Collected: 09/17/21 11:05

Matrix: Water

Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	597823	09/25/21 07:09	CRL	TAL BUF
Total/NA	Prep	3510C			597023	09/20/21 08:51	JMP	TAL BUF
Total/NA	Analysis	8270D		1	597230	09/22/21 12:08	PJQ	TAL BUF

Client Sample ID: BD SW
Lab Sample ID: 480-189753-3

Date Collected: 09/17/21 11:05
Matrix: Water

Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			597330	09/22/21 09:02	JMP	TAL BUF
Total/NA	Analysis	8081B		1	597315	09/22/21 16:48	JLS	TAL BUF
Total/NA	Prep	3510C			597143	09/21/21 08:58	JMP	TAL BUF
Total/NA	Analysis	8082A		1	597224	09/21/21 21:27	W1T	TAL BUF
Total/NA	Prep	8151A			597146	09/21/21 09:14	JMP	TAL BUF
Total/NA	Analysis	8151A		1	597319	09/22/21 13:47	MAN	TAL BUF
Total/NA	Prep	3005A			596969	09/21/21 09:44	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597546	09/23/21 00:44	LMH	TAL BUF
Total/NA	Prep	3005A			596969	09/21/21 09:44	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597384	09/22/21 00:36	LMH	TAL BUF
Total/NA	Prep	7470A			597419	09/22/21 13:54	BMB	TAL BUF
Total/NA	Analysis	7470A		1	597476	09/22/21 17:34	BMB	TAL BUF

Client Sample ID: SED-1
Lab Sample ID: 480-189753-4

Date Collected: 09/17/21 10:30
Matrix: Solid

Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	597096	09/20/21 16:09	JMM	TAL BUF

Client Sample ID: SED-1
Lab Sample ID: 480-189753-4

Date Collected: 09/17/21 10:30
Matrix: Solid

Date Received: 09/17/21 13:27
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596895	09/17/21 16:07	LCH	TAL BUF
Total/NA	Analysis	8260C		1	597102	09/20/21 20:32	CDC	TAL BUF
Total/NA	Prep	3550C			597244	09/21/21 14:57	ADH	TAL BUF
Total/NA	Analysis	8270D		1	597615	09/23/21 15:06	PJQ	TAL BUF
Total/NA	Prep	3550C			597724	09/24/21 08:13	VXF	TAL BUF
Total/NA	Analysis	8081B		20	597956	09/27/21 13:06	JLS	TAL BUF
Total/NA	Prep	3550C			597499	09/23/21 07:21	SMP	TAL BUF
Total/NA	Analysis	8082A		1	597667	09/23/21 22:14	W1T	TAL BUF
Total/NA	Prep	8151A			597006	09/20/21 07:12	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597172	09/21/21 23:18	MAN	TAL BUF
Total/NA	Prep	3050B			597083	09/20/21 17:10	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597372	09/21/21 22:23	LMH	TAL BUF
Total/NA	Prep	7471B			597656	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 15:49	BMB	TAL BUF

Client Sample ID: SED-2

Lab Sample ID: 480-189753-5

Date Collected: 09/17/21 10:15

Matrix: Solid

Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	597096	09/20/21 16:09	JMM	TAL BUF

Client Sample ID: SED-2

Lab Sample ID: 480-189753-5

Date Collected: 09/17/21 10:15

Matrix: Solid

Date Received: 09/17/21 13:27

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596895	09/17/21 16:07	LCH	TAL BUF
Total/NA	Analysis	8260C		1	597102	09/20/21 20:56	CDC	TAL BUF
Total/NA	Prep	3550C			597244	09/21/21 14:57	ADH	TAL BUF
Total/NA	Analysis	8270D		1	597424	09/23/21 00:29	PJQ	TAL BUF
Total/NA	Prep	3550C			597724	09/24/21 08:13	VXF	TAL BUF
Total/NA	Analysis	8081B		5	597956	09/27/21 13:26	JLS	TAL BUF
Total/NA	Prep	3550C			597499	09/23/21 07:21	SMP	TAL BUF
Total/NA	Analysis	8082A		1	597667	09/23/21 22:27	W1T	TAL BUF
Total/NA	Prep	8151A			597006	09/20/21 07:12	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597172	09/21/21 23:47	MAN	TAL BUF
Total/NA	Prep	3050B			597083	09/20/21 17:10	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597372	09/21/21 22:26	LMH	TAL BUF
Total/NA	Prep	3050B			597083	09/20/21 17:10	ADM	TAL BUF
Total/NA	Analysis	6010C		2	597551	09/23/21 01:00	LMH	TAL BUF
Total/NA	Prep	7471B			597656	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 15:50	BMB	TAL BUF

Client Sample ID: SED-3

Lab Sample ID: 480-189753-6

Date Collected: 09/17/21 10:00

Matrix: Solid

Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	597096	09/20/21 16:09	JMM	TAL BUF

Client Sample ID: SED-3

Lab Sample ID: 480-189753-6

Date Collected: 09/17/21 10:00

Matrix: Solid

Date Received: 09/17/21 13:27

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596895	09/17/21 16:07	LCH	TAL BUF
Total/NA	Analysis	8260C		1	597102	09/20/21 21:19	CDC	TAL BUF
Total/NA	Prep	3550C			597244	09/21/21 14:57	ADH	TAL BUF
Total/NA	Analysis	8270D		10	597424	09/22/21 23:42	PJQ	TAL BUF
Total/NA	Prep	3550C			597724	09/24/21 08:13	VXF	TAL BUF
Total/NA	Analysis	8081B		50	597956	09/27/21 12:27	JLS	TAL BUF
Total/NA	Prep	3550C			597499	09/23/21 07:21	SMP	TAL BUF
Total/NA	Analysis	8082A		1	597667	09/23/21 20:07	W1T	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Client Sample ID: SED-3

Lab Sample ID: 480-189753-6

Date Collected: 09/17/21 10:00
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			597006	09/20/21 07:12	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597172	09/21/21 21:19	MAN	TAL BUF
Total/NA	Prep	3050B			597083	09/20/21 17:10	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597372	09/21/21 22:30	LMH	TAL BUF
Total/NA	Prep	3050B			597083	09/20/21 17:10	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597551	09/23/21 01:04	LMH	TAL BUF
Total/NA	Prep	7471B			597656	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 15:52	BMB	TAL BUF

Client Sample ID: BD SED

Lab Sample ID: 480-189753-7

Date Collected: 09/17/21 10:20
Matrix: Solid
Date Received: 09/17/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	597096	09/20/21 16:09	JMM	TAL BUF

Client Sample ID: BD SED

Lab Sample ID: 480-189753-7

Date Collected: 09/17/21 10:20
Matrix: Solid
Date Received: 09/17/21 13:27
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			596895	09/17/21 16:07	LCH	TAL BUF
Total/NA	Analysis	8260C		1	597102	09/20/21 21:42	CDC	TAL BUF
Total/NA	Prep	3550C			597244	09/21/21 14:57	ADH	TAL BUF
Total/NA	Analysis	8270D		1	597424	09/23/21 00:53	PJQ	TAL BUF
Total/NA	Prep	3550C			597724	09/24/21 08:13	VXF	TAL BUF
Total/NA	Analysis	8081B		1	597956	09/27/21 13:45	JLS	TAL BUF
Total/NA	Prep	3550C			597499	09/23/21 07:21	SMP	TAL BUF
Total/NA	Analysis	8082A		1	597667	09/23/21 23:05	W1T	TAL BUF
Total/NA	Prep	8151A			597006	09/20/21 07:12	SMP	TAL BUF
Total/NA	Analysis	8151A		1	597172	09/22/21 00:17	MAN	TAL BUF
Total/NA	Prep	3050B			597083	09/20/21 17:10	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597372	09/21/21 23:01	LMH	TAL BUF
Total/NA	Prep	3050B			597083	09/20/21 17:10	ADM	TAL BUF
Total/NA	Analysis	6010C		1	597551	09/23/21 01:33	LMH	TAL BUF
Total/NA	Prep	7471B			597656	09/24/21 14:07	BMB	TAL BUF
Total/NA	Analysis	7471B		1	597862	09/24/21 15:57	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189753-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Water	Picloram
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189753-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-189753-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189753-1	SW-1	Water	09/17/21 11:00	09/17/21 13:27
480-189753-2	SW-2	Water	09/17/21 11:15	09/17/21 13:27
480-189753-3	BD SW	Water	09/17/21 11:05	09/17/21 13:27
480-189753-4	SED-1	Solid	09/17/21 10:30	09/17/21 13:27
480-189753-5	SED-2	Solid	09/17/21 10:15	09/17/21 13:27
480-189753-6	SED-3	Solid	09/17/21 10:00	09/17/21 13:27
480-189753-7	BD SED	Solid	09/17/21 10:20	09/17/21 13:27

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Bryan Mayback	Site Contact: Ethan Smith	Date: 9/17/21	COC No:
Benchmark-Turnkey Environmental Engineering and Science	Tel/Fax: (716) 844-1699	Lab Contact: Brian Fischer	Carrier:	1 of 1 COCs
2558 Hamburg Turnpike Suite 300	Analysis Turnaround Time			Sampler:
Lackawanna, NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(716) 856-0599 Phone	TAT if different from Below Standard			Walk-in Client:
(716) 856-0583 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 3077 Union Rd and Associated Parcels	☐ 1 week			
Site: 3077 Union Rd., Orchard Park, NY 14127	☐ 2 days			Job / SDG No.: T0105-017-010
P O # T0105-017-001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL VOCs	TCL SVOCs	TAL Metals	PCB's	Pesticides	Herbicides	Sample Specific Notes:
SW-1	9/17/21	11:00	G	AQ			X	X	X	X	X	X	X	encores
SW-2		11:15		AQ				X	X	X	X	X	X	
BD SW		11:05		AQ				X	X	X	X	X	X	
Sed-1		10:30		Solid				X	X	X	X	X	X	
Sed-2		10:15		Solid				X	X	X	X	X	X	
Sed-3		10:00		Solid			X	X	X	X	X	X	X	
BD Sed		10:20		Solid										

480-189753 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Cat B, NYS Red Flags

#(2,9,3,2

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	BMTK		Received by:		
Relinquished by:	BMTK	9/17/21 1337	Received by:		
Relinquished by:			Received in Laboratory by:	TMO	9/17/21 1537

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

9/28/2021

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-189753-1

Login Number: 189753

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 9/17/21 1530
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BMTK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

APPENDIX E

CAMP SUMMARY

COMMUNITY AIR MONITORING PLAN SUMMARY REPORT

3077 Union Road Site

BCP Site No. C915349

Orchard Park, New York

Summary of Activities Performed:

- Advancement of soil borings and monitoring wells
- Collection of surface soil samples
- Test pit excavation

Real Time Community Air Monitoring Work Performed:

CAMP data was collected on the following days:

- 4/5/2021
- 9/13/2021 – 9/15/2021

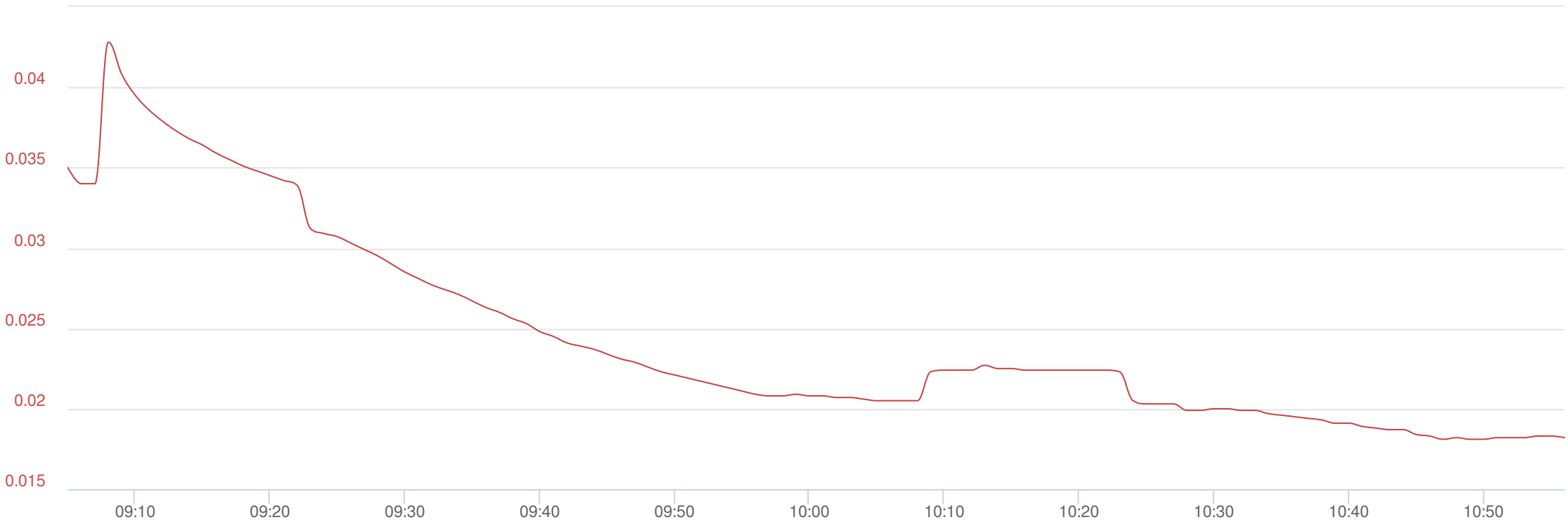
Community Air Monitoring Program Results:

- Attached monitoring results generally conformed to the Community Air Monitoring perimeter particulate requirement (i.e., <150 ug/m^3) and the organic vapor requirement (i.e., <5 ppm) during RI activities completed in April and September 2021.
- The PID did not record and the dusttrak shut off early on April 5, 2021 due to instrument malfunction. This CAMP station was not used again at the site.

Community Air Monitoring Program Notes:

- CAMP monitoring was not completed during RI activities completed January 27, 2021 through February 1, 2021 or June 14, 2021 due to rainy conditions.

Mon, 5th of Apr 2021, 0:00:00 – 23:59:00
(GMT-05:00) Eastern Time (US & Canada)



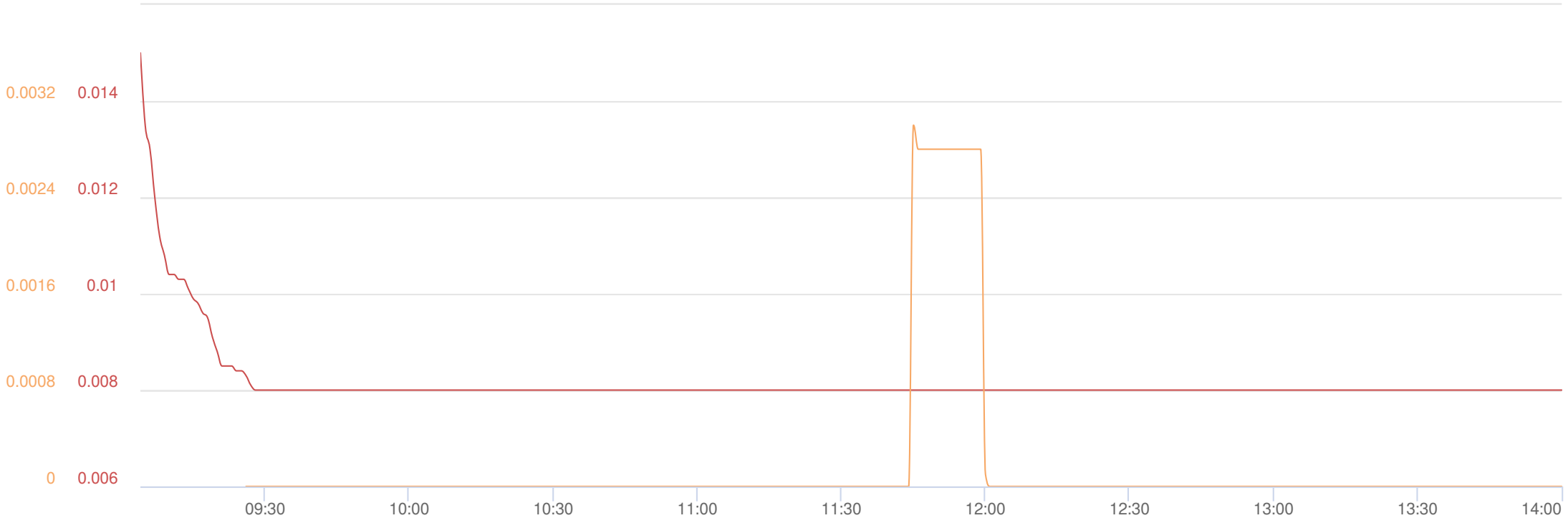
Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0181	**0.0245**	**0.0428**

Name	CAMP Station #6
S/N	0B389622
Description	CAMP Station # 6 Replacement
Location	153 Louisiana St, Buffalo, NY 14204, USA

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Mon, 13th of Sep 2021, 0:00:00 – 23:59:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.008	0.008	0.015

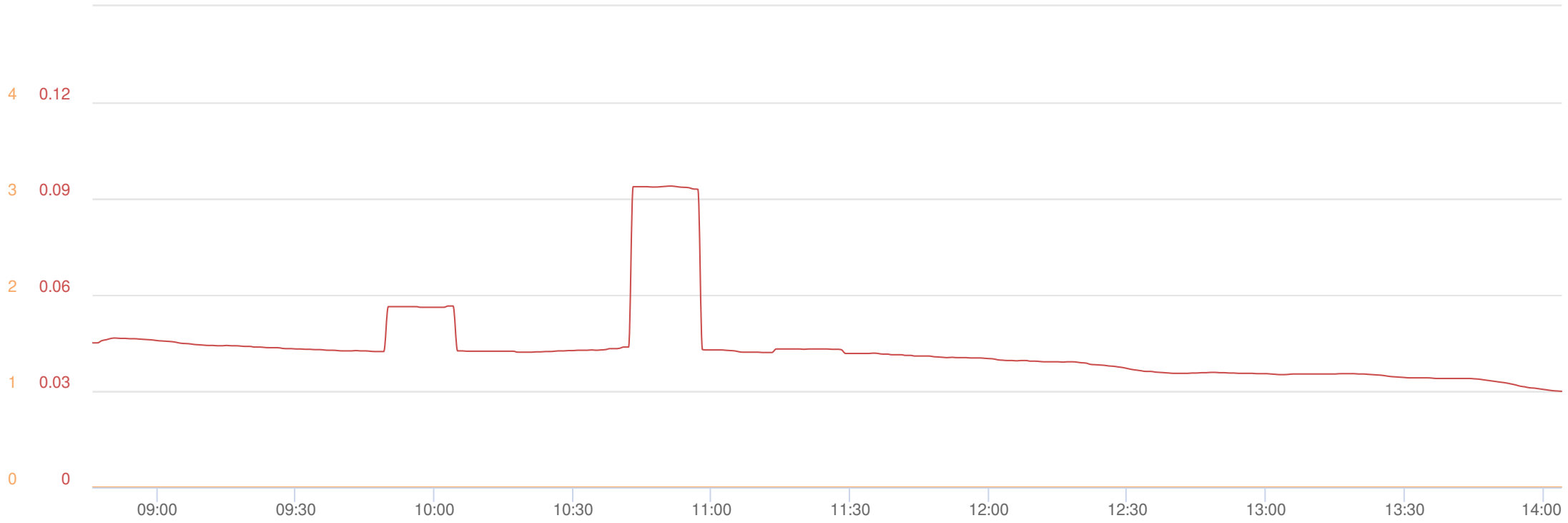
VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.003

Name CAMP Station #3
S/N 0B466411
Description CAMP Station #3
Location 2424 Hamburg Turnpike, Buffalo, NY 14218, USA

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Tue, 14th of Sep 2021, 0:00:00 – 23:59:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.03	0.0431	0.0939

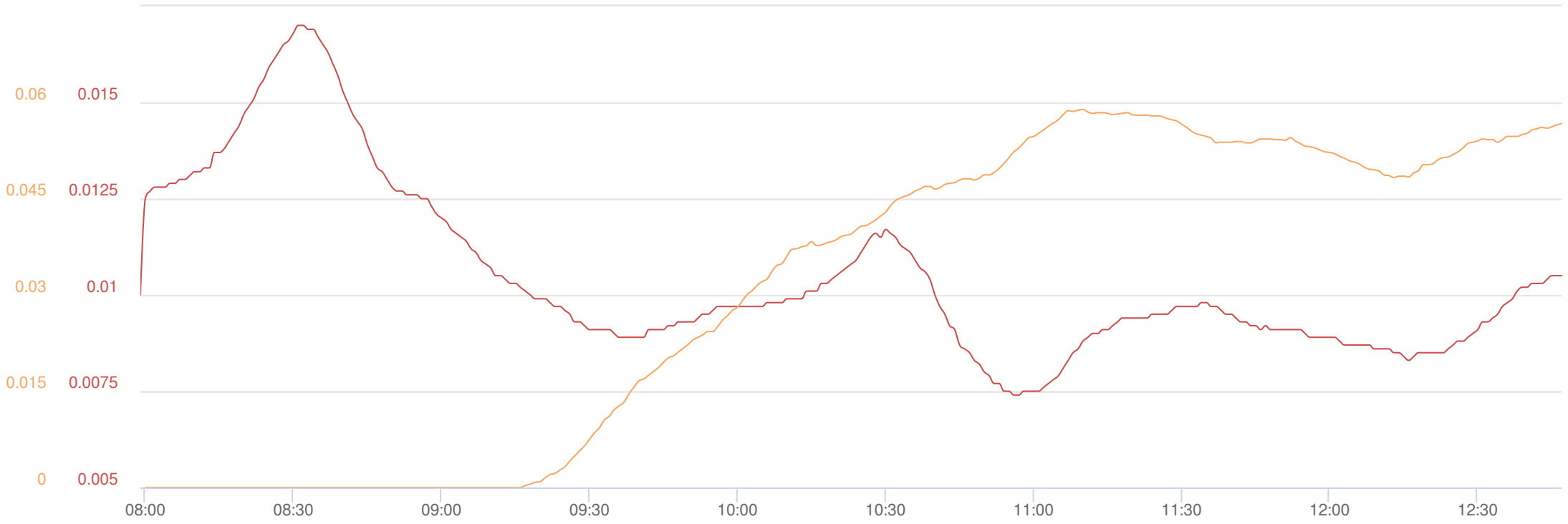
VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

Name	CAMP Station #3
S/N	0B466411
Description	CAMP Station #3
Location	2424 Hamburg Turnpike, Buffalo, NY 14218, USA

© Netronix 2022

Wed, 15th of Sep 2021, 0:00:00 – 23:59:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0074	**0.0105**	**0.017**

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	**0.0311**	**0.0589**

Name	CAMP Station #3
S/N	0B466411
Description	CAMP Station #3
Location	2424 Hamburg Turnpike, Buffalo, NY 14218, USA

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Community Air Monitoring Program
3077 Union Road Site
BCP Site No. C915349
Orchard Park, New York

Date Time	VOC ppm AVG 15m (ppm)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)
4/5/2021 9:05		0.035
4/5/2021 9:06		0.034
4/5/2021 9:07		0.034
4/5/2021 9:08		0.0428
4/5/2021 9:09		0.0408
4/5/2021 9:10		0.0395
4/5/2021 9:11		0.0386
4/5/2021 9:12		0.0379
4/5/2021 9:13		0.0373
4/5/2021 9:14		0.0368
4/5/2021 9:15		0.0364
4/5/2021 9:16		0.0359
4/5/2021 9:17		0.0355
4/5/2021 9:18		0.0351
4/5/2021 9:19		0.0348
4/5/2021 9:20		0.0345
4/5/2021 9:21		0.0342
4/5/2021 9:22		0.0339
4/5/2021 9:23		0.0312
4/5/2021 9:24		0.0309
4/5/2021 9:25		0.0307
4/5/2021 9:26		0.0303
4/5/2021 9:27		0.0299
4/5/2021 9:28		0.0295
4/5/2021 9:29		0.029
4/5/2021 9:30		0.0285
4/5/2021 9:31		0.0281
4/5/2021 9:32		0.0277
4/5/2021 9:33		0.0274
4/5/2021 9:34		0.0271
4/5/2021 9:35		0.0267
4/5/2021 9:36		0.0263
4/5/2021 9:37		0.026
4/5/2021 9:38		0.0256
4/5/2021 9:39		0.0253
4/5/2021 9:40		0.0248
4/5/2021 9:41		0.0245
4/5/2021 9:42		0.0241
4/5/2021 9:43		0.0239
4/5/2021 9:44		0.0237
4/5/2021 9:45		0.0234
4/5/2021 9:46		0.0231
4/5/2021 9:47		0.0229
4/5/2021 9:48		0.0226
4/5/2021 9:49		0.0223
4/5/2021 9:50		0.0221
4/5/2021 9:51		0.0219
4/5/2021 9:52		0.0217
4/5/2021 9:53		0.0215
4/5/2021 9:54		0.0213
4/5/2021 9:55		0.0211
4/5/2021 9:56		0.0209
4/5/2021 9:57		0.0208
4/5/2021 9:58		0.0208
4/5/2021 9:59		0.0209
4/5/2021 10:00		0.0208
4/5/2021 10:01		0.0208
4/5/2021 10:02		0.0207
4/5/2021 10:03		0.0207
4/5/2021 10:04		0.0206
4/5/2021 10:05		0.0205
4/5/2021 10:06		0.0205
4/5/2021 10:07		0.0205
4/5/2021 10:08		0.0205
4/5/2021 10:09		0.0223
4/5/2021 10:10		0.0224
4/5/2021 10:11		0.0224
4/5/2021 10:12		0.0224
4/5/2021 10:13		0.0227
4/5/2021 10:14		0.0225
4/5/2021 10:15		0.0225
4/5/2021 10:16		0.0224
4/5/2021 10:17		0.0224

4/5/2021 10:18		0.0224
4/5/2021 10:19		0.0224
4/5/2021 10:20		0.0224
4/5/2021 10:21		0.0224
4/5/2021 10:22		0.0224
4/5/2021 10:23		0.0223
4/5/2021 10:24		0.0205
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9/13/2021 9:11		0.0104
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9/13/2021 12:50	0	0.008
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9/13/2021 12:52	0	0.008
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9/13/2021 12:58	0	0.008
9/13/2021 12:59	0	0.008
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9/13/2021 13:01	0	0.008
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9/13/2021 13:04	0	0.008
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9/13/2021 13:07	0	0.008
9/13/2021 13:08	0	0.008
9/13/2021 13:09	0	0.008
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9/13/2021 13:14	0	0.008
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9/13/2021 13:16	0	0.008
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9/13/2021 13:19	0	0.008
9/13/2021 13:20	0	0.008
9/13/2021 13:21	0	0.008
9/13/2021 13:22	0	0.008
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9/13/2021 13:26	0	0.008
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9/13/2021 13:30	0	0.008
9/13/2021 13:31	0	0.008
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9/13/2021 13:40	0	0.008
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9/15/2021 9:53	0.0238	0.0095
9/15/2021 9:54	0.0243	0.0095
9/15/2021 9:55	0.0243	0.0096
9/15/2021 9:56	0.0251	0.0097
9/15/2021 9:57	0.0261	0.0097
9/15/2021 9:58	0.0268	0.0097
9/15/2021 9:59	0.0276	0.0097
9/15/2021 10:00	0.0281	0.0097
9/15/2021 10:01	0.0291	0.0097
9/15/2021 10:02	0.0301	0.0097
9/15/2021 10:03	0.0307	0.0097
9/15/2021 10:04	0.0315	0.0097
9/15/2021 10:05	0.0321	0.0097
9/15/2021 10:06	0.0325	0.0098
9/15/2021 10:07	0.0337	0.0098
9/15/2021 10:08	0.0346	0.0098
9/15/2021 10:09	0.0349	0.0098
9/15/2021 10:10	0.036	0.0099
9/15/2021 10:11	0.0371	0.0099
9/15/2021 10:12	0.0372	0.0099
9/15/2021 10:13	0.0375	0.0099
9/15/2021 10:14	0.0377	0.0101
9/15/2021 10:15	0.0383	0.0101
9/15/2021 10:16	0.0377	0.0101
9/15/2021 10:17	0.0378	0.0103
9/15/2021 10:18	0.0381	0.0103
9/15/2021 10:19	0.0383	0.0104
9/15/2021 10:20	0.0386	0.0105
9/15/2021 10:21	0.0391	0.0106
9/15/2021 10:22	0.0393	0.0107
9/15/2021 10:23	0.0395	0.0108
9/15/2021 10:24	0.0401	0.0109
9/15/2021 10:25	0.0407	0.0111
9/15/2021 10:26	0.0408	0.0113
9/15/2021 10:27	0.0412	0.0115
9/15/2021 10:28	0.0417	0.0116
9/15/2021 10:29	0.0423	0.0115
9/15/2021 10:30	0.0429	0.0117
9/15/2021 10:31	0.0439	0.0116
9/15/2021 10:32	0.0447	0.0115
9/15/2021 10:33	0.0451	0.0113
9/15/2021 10:34	0.0454	0.0112
9/15/2021 10:35	0.0457	0.0111
9/15/2021 10:36	0.0462	0.0109
9/15/2021 10:37	0.0465	0.0107
9/15/2021 10:38	0.0469	0.0106
9/15/2021 10:39	0.0469	0.0104
9/15/2021 10:40	0.0465	0.01
9/15/2021 10:41	0.0467	0.0097
9/15/2021 10:42	0.0472	0.0095
9/15/2021 10:43	0.0474	0.0092

9/15/2021 10:44	0.0475	0.0091
9/15/2021 10:45	0.0479	0.0087
9/15/2021 10:46	0.0481	0.0086
9/15/2021 10:47	0.0481	0.0085
9/15/2021 10:48	0.0479	0.0083
9/15/2021 10:49	0.0482	0.0082
9/15/2021 10:50	0.0487	0.008
9/15/2021 10:51	0.0487	0.0079
9/15/2021 10:52	0.0491	0.0077
9/15/2021 10:53	0.0497	0.0077
9/15/2021 10:54	0.0505	0.0075
9/15/2021 10:55	0.0514	0.0075
9/15/2021 10:56	0.0523	0.0074
9/15/2021 10:57	0.0529	0.0074
9/15/2021 10:58	0.0537	0.0075
9/15/2021 10:59	0.0545	0.0075
9/15/2021 11:00	0.0547	0.0075
9/15/2021 11:01	0.0552	0.0075
9/15/2021 11:02	0.0557	0.0076
9/15/2021 11:03	0.0563	0.0077
9/15/2021 11:04	0.0568	0.0078
9/15/2021 11:05	0.0573	0.0079
9/15/2021 11:06	0.0581	0.0081
9/15/2021 11:07	0.0587	0.0083
9/15/2021 11:08	0.0586	0.0085
9/15/2021 11:09	0.0588	0.0086
9/15/2021 11:10	0.0589	0.0088
9/15/2021 11:11	0.0585	0.0089
9/15/2021 11:12	0.0583	0.009
9/15/2021 11:13	0.0584	0.009
9/15/2021 11:14	0.0584	0.0091
9/15/2021 11:15	0.0583	0.0091
9/15/2021 11:16	0.0581	0.0092
9/15/2021 11:17	0.0582	0.0093
9/15/2021 11:18	0.0583	0.0094
9/15/2021 11:19	0.0584	0.0094
9/15/2021 11:20	0.0581	0.0094
9/15/2021 11:21	0.058	0.0094
9/15/2021 11:22	0.058	0.0094
9/15/2021 11:23	0.058	0.0094
9/15/2021 11:24	0.0579	0.0095
9/15/2021 11:25	0.0579	0.0095
9/15/2021 11:26	0.0578	0.0095
9/15/2021 11:27	0.0575	0.0095
9/15/2021 11:28	0.0573	0.0096
9/15/2021 11:29	0.0571	0.0097
9/15/2021 11:30	0.0566	0.0097
9/15/2021 11:31	0.0561	0.0097
9/15/2021 11:32	0.0555	0.0097
9/15/2021 11:33	0.0551	0.0097
9/15/2021 11:34	0.0549	0.0098
9/15/2021 11:35	0.0547	0.0098
9/15/2021 11:36	0.0544	0.0097
9/15/2021 11:37	0.0537	0.0097
9/15/2021 11:38	0.0538	0.0096
9/15/2021 11:39	0.0538	0.0095
9/15/2021 11:40	0.0538	0.0095
9/15/2021 11:41	0.0539	0.0094
9/15/2021 11:42	0.0539	0.0093
9/15/2021 11:43	0.0537	0.0093
9/15/2021 11:44	0.0537	0.0092
9/15/2021 11:45	0.054	0.0092
9/15/2021 11:46	0.0543	0.0091
9/15/2021 11:47	0.0543	0.0092
9/15/2021 11:48	0.0543	0.0091
9/15/2021 11:49	0.0542	0.0091
9/15/2021 11:50	0.0542	0.0091
9/15/2021 11:51	0.0541	0.0091
9/15/2021 11:52	0.0545	0.0091
9/15/2021 11:53	0.054	0.0091
9/15/2021 11:54	0.0536	0.0091
9/15/2021 11:55	0.0532	0.009
9/15/2021 11:56	0.0531	0.0089
9/15/2021 11:57	0.0529	0.0089
9/15/2021 11:58	0.0526	0.0089
9/15/2021 11:59	0.0523	0.0089
9/15/2021 12:00	0.0522	0.0089
9/15/2021 12:01	0.052	0.0089
9/15/2021 12:02	0.0516	0.0088
9/15/2021 12:03	0.0513	0.0087
9/15/2021 12:04	0.0509	0.0087
9/15/2021 12:05	0.0507	0.0087

9/15/2021 12:06	0.0504	0.0087
9/15/2021 12:07	0.0499	0.0087
9/15/2021 12:08	0.0496	0.0087
9/15/2021 12:09	0.0495	0.0086
9/15/2021 12:10	0.0493	0.0086
9/15/2021 12:11	0.0487	0.0086
9/15/2021 12:12	0.0486	0.0086
9/15/2021 12:13	0.0483	0.0085
9/15/2021 12:14	0.0485	0.0085
9/15/2021 12:15	0.0485	0.0084
9/15/2021 12:16	0.0484	0.0083
9/15/2021 12:17	0.049	0.0084
9/15/2021 12:18	0.0494	0.0085
9/15/2021 12:19	0.0503	0.0085
9/15/2021 12:20	0.0503	0.0085
9/15/2021 12:21	0.0505	0.0085
9/15/2021 12:22	0.0511	0.0085
9/15/2021 12:23	0.0514	0.0085
9/15/2021 12:24	0.0515	0.0086
9/15/2021 12:25	0.0519	0.0087
9/15/2021 12:26	0.0523	0.0088
9/15/2021 12:27	0.0529	0.0088
9/15/2021 12:28	0.0536	0.0089
9/15/2021 12:29	0.0538	0.009
9/15/2021 12:30	0.054	0.0091
9/15/2021 12:31	0.0543	0.0093
9/15/2021 12:32	0.0542	0.0093
9/15/2021 12:33	0.0542	0.0094
9/15/2021 12:34	0.0538	0.0095
9/15/2021 12:35	0.0542	0.0097
9/15/2021 12:36	0.0547	0.0098
9/15/2021 12:37	0.0547	0.0099
9/15/2021 12:38	0.0547	0.0101
9/15/2021 12:39	0.055	0.0102
9/15/2021 12:40	0.0552	0.0102
9/15/2021 12:41	0.0557	0.0103
9/15/2021 12:42	0.0559	0.0103
9/15/2021 12:43	0.0561	0.0103
9/15/2021 12:44	0.056	0.0104
9/15/2021 12:45	0.0562	0.0105
9/15/2021 12:46	0.0565	0.0105
9/15/2021 12:47	0.0567	0.0105

APPENDIX F

DATA USABILITY SUMMARY REPORT (DUSR)

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

September 13, 2022

Chelsea Kanalay
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the 3077 Union Road Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Eurofins TA SDG Nos.200-60682-1, 480-180659-1, 480-180749-1, 480-180934-1, 480-182831-1, 480-182896-1, 480-189504-1, 480-189621-1, 480-189652-1, 480-189753-1, and 480-198998-1

Dear Ms. Kanalay:

Review has been completed for the data packages generated by Eurofins TestAmerica that pertain to samples collected between 01/28/21 and 06/14/22 at the 3077 Union Road site. Twenty-four soil samples, nine aqueous samples, three soil field duplicates, and two field duplicates were processed for TCL volatiles, TCL semivolatiles, 1,4-dioxane, TCL pesticides, TCL herbicides, Aroclor PCBs, and TAL metals. Fourteen of the soil samples, seven of the aqueous samples, two of the soil field duplicates, and one of the aqueous field duplicates were also processed for per- and polyfluoroalkyl substances (PFAS). Seventeen soil samples were processed for TCL semivolatiles, 1,4-dioxane, TCL pesticides, TCL herbicides, Aroclor PCBs, TAL metals, and PFAS. Six soil samples and nine aqueous samples were processed for TCL volatiles; one of these was also processed for TCL semivolatiles. Three soil samples were processed for TCL semivolatiles and TAL metals. Five 6 L summa canisters and a field duplicate were processed for volatile analytes. An equipment blank, trip blank, and matrix spikes were also processed The analytical methodologies are those of the USEPA SW846, USEPA TO-15, and a modified USEPA method 537.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents and the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate/Isotopic Dilution/Internal Standard Recoveries
* Method/Preparation/Canister/Equipment/Trip Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations

* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Serial Dilution Evaluation
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, the results for the sample target analytes are usable either as reported or with minor qualification.

Data completeness, accuracy, precision, representativeness, reproducibility, and comparability are generally acceptable. However, there is evidence of a non-homogenous matrix as regards metals in the sediments, and there is an apparent matrix effect on volatiles in the soil ("TP") fraction.

The laboratory modifications to the USEPA method 537 are significant, including acceptance ranges, consistent in many respects to the advances in the available monitoring compounds. Validation actions are based on the laboratory procedures, in consideration that the laboratory undergoes NYS DOH and ELAP certifications. PFAS compounds are identified by their common acronyms in this report. The data package report forms reference both the technical names and the acronyms.

Validation data qualifier definitions and client sample identifications are attached to this text. Also included in this report are the client EDDs with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

The custody form associated with eight samples and the equipment blank reported in SDG 480-180934 did not accompany the samples. The receipt of the samples was documented on the login form.

The final relinquish entry is not present on the custody form for samples reported in SDG 480-189504.

The laboratory should have fully completed the relinquish entries for the subcontracted PFAS analyses of samples reported in SDGs 480-180934-1 and 480-189621, rather than the comment "pg 1."

Although some samples sent for PFAS processing were shipped 09/16/22 for overnight delivery, they were not received by the laboratory until 09/20/22. They were received at an elevated temperature of 14°C; however, due to the persistence of PFAS, there is no perceived impact on the usability of the associated reported data, and no qualification is made.

Blind Field Duplicates

The blind field duplicate evaluations were performed for all analytes on locations SV-1, MW-8D, TP-19 1-3ft, TP-32 0-6 in, SW-2, and Sed-2. Correlations are within validation guidelines, with the exception of the following, results for which are qualified as estimated in that parent sample and its duplicate:

- copper in TP-19 1-3ft
- fluoranthene, pyrene, cobalt, and manganese in TP-32 0-6
- chloroform in SW-2
- arsenic, barium, copper, iron, lead, nickel, and zinc in SED-2

It is noted that the variances for arsenic and lead in SED-2 are between four- or fivefold difference in concentration from the duplicate.

TCL Volatile Analyses by EPA 8260D

Due to presence in the associated blanks, the following detections are considered external contamination and edited to reflect non-detection at the reporting limit:

- acetone and 2-butanone in the samples reported in SDG 480-180934
- methylene chloride in samples reported in 480-189504

The matrix spikes of TP-3, TP-17, and SED-3 show the large majority of analytes with outlying recoveries. This typically indicates a matrix effect. The results for those affected analytes have been qualified as estimated in value, with a low bias.

The matrix spikes of MW-1 and SW-1 show recoveries and duplicate correlations that are within validation guidelines.

Calibration standards show responses within validation action levels, with the exception of the following, results for which are qualified as estimated in the indicated associated samples:
1,1-dichloroethene, chloroform, 1,1,1-trichloroethane, carbon tetrachloride, and bromoform (21%D to 24%D) in SW-1, SW-2, and BD SW.

Surrogate and internal standard recoveries are compliant.

TCL Semivolatile and 1,4-Dioxane Analyses by EPA8270E (Full Scan/SIM)

Matrix spikes for all analytes were performed on MW-8_8D 4-5, MW-1, TP-6 3-4 FT, TP-12 6in-2ft, SS-19, TP-3, TP-17, and SW-1, and show recoveries and correlations within validation guidelines.

The matrix spikes of SED-3 were processed at 1:100, and the evaluation is therefore not applicable.

Due to presence in the associated blank, the detection of butylbenzyl phthalate in MW-8D is considered external contamination and edited to reflect non-detection.

Holding times were met. Surrogate and internal standard recoveries are compliant.

Calibration standards show responses within validation action levels, with the exception of the following, results for which are qualified as estimated in the indicated associated samples:

- 2,4,6-trichlorophenol (26%D) in samples reported with SDG 480-180934
- 4-chloro-3-methylphenol (low RRF) in samples reported in SDG 480-180934
- bis(2-chloroethoxy)methane in samples reported in SDGs 480-189621 and 480-139652

Many of the samples were processed at dilution due to sample matrix, and reporting limits for the affected samples are therefore proportionally elevated.

TCL Pesticide, TCL Herbicides, and Aroclor PCBs by EPA 8081B, EPA8151, and 8082A

Some of the detected pesticide results exhibit elevated dual column quantitative correlations, and are qualified to reflect the uncertainty in identification and/or quantitation. The values have been either qualified as estimated ("J"), qualified as tentative in identification and estimated in value ("NJ"), or edited to non-detection ("U"), depending on the degree of variance. In some instances, the adjusted reporting limits are elevated over the original method reporting limits.

MW-9 and BD produced low recoveries (32% to 46%) for the herbicide surrogate standards, and the herbicide results for those two samples are therefore qualified as estimated, with a low bias.

Due to presence in the associated blanks, the following detections are considered external contamination and edited to reflect non-detection at the reporting limit:

- d-BHC and g-BHC in samples reported in SDG 480-180934
- 4,4'-DDT in MW-9 6-7
- b-BHC in samples reported in SDG 480-189621
- endrin ketone in samples reported in SDG 480-189652
- 4,4'-DDT and endrin aldehyde in samples reported in SDG 480-198998

The following matrix spike accuracy and precision evaluations were performed, and show recoveries and correlations within validation guidelines:

- herbicides and pesticides on MW-8_8D 4-5
- pesticides on MW-11 4-5
- herbicides, Aroclors 1016 and 1260, and pesticides on MW-1 TP-3, TP-17, and SW-1
- pesticides and Aroclors 1016 and 1260 on TP-6 3-4 FT and TP-12 6in-2ft
- herbicides on TP-22 0-2 FT and SS-4
- herbicides and Aroclors 1016 and 1260 on SED-3

The pesticide matrix spikes of SED-3 were processed at 1:50, and the evaluation is therefore not applicable.

Holding times were met. Calibration standard responses are within validation guidelines.

Many of the samples were processed at dilution due to sample matrix, and reporting limits for the affected samples are therefore proportionally elevated.

PFAS by Modified EPA Method 537

Due to presence in the associated blanks, the following detections are considered external contamination and edited to reflect non-detection at the reporting limits or the originally reported concentrations, whichever are greater:

- PFBA in MW-8_8D 4-5 (re-extraction is to be used)
- PFBS in samples reported in SDGs 480-189504, 480-189621, and 480-189652,
- PFOS in samples reported in SDG 480-189504 except TP-30 4-6 FT and TP-34 0-2 FT, those qualified by the laboratory as "BJ" in samples reported in SDG 480-189621, and all except TP-8 in samples reported in SDG 480-189652
- PFHxS, NEtFOSAA, and PFDS in samples reported in SDG 480-189621
- PFDA in all except six of the samples reported in SDG 480-189621
- NMEFOSAA in samples reported in SDG 480-189652

The following results are qualified as being Estimated Maximum Possible Concentrations due to outlying ion ratios:

- PFOS in MW-13, MW-1D, MW-9, TP-32 0-6in, SS-5, SS-6, SS-7, SS-8, SS-9, SS-12, SS-13, SS-14, and SS-19
- PFTeA in MW-8
- PFHxS in TP-6 3-4 FT
- PGHpS iii TP-8
- PFHxA in SS-1 and SS-3

The matrix spikes of PFAS on MW-8_8D 4-5, SS-18, TP-3, TP-17, MW-1, and SS-2 show recoveries and correlations within laboratory acceptance ranges.

Due to outlying isotopic dilution standard recoveries, the following associated analyte results are qualified as estimated:

- 8:2-FTS in BD, MW-12, and MW-9
- PFTDA in SS-18 and SS-19
- NMeFOSAA, PFUnA, and NEtFOSAA in TP-12 6in-2ft

The sample report Forms 1 and client results summaries in some of the data packages did not show "U" or "ND" for analytes reporting no detection, thus making it appear as though all analytes were detected in the affected samples. The EDDs were properly annotated.

Volatile Analyses by EPA TO-15

The canisters for SV-1, SV-4, and Blind Dup were received at ambient pressure, and are therefore qualified as estimated. The flow for controllers for SV-1 and SV-4 were outside the acceptance range, and that for the Blind Dup was within the acceptance range.

Holding times and instrument tunes meet requirements. LCS recoveries are compliant.

Initial and continuing calibration standard responses fall within validation guidelines. Blanks show no contamination.

TAL Metals Analyses by EPA 6020B, 7470, and 7471

Due to presence in the associated preparation blank, the detections of sodium in the samples reported in SDG 480-189504 are considered external contamination, and have been edited to reflect non-detection.

Matrix spikes/duplicate evaluations were performed for TAL metals on TP-30 4-6 FT, TP-12 6in-2ft, TP-3, TP-17, SW-1, SED-3, and.MW-1. They show recoveries and correlations within validation guidelines, with the exception of the following, results for which are qualified as estimated in the indicated parent sample:

Parent Sample	Element	Outlying % Recoveries	Outlying % RPD's
MW-1	manganese	140,142	
TP-30 4-6 FT	antimony	51,46	
	barium	148,255	
	chromium	330,149	39
	manganese		35
	Potassium	214,209	
	vanadium	168	30

Parent Sample	Element	Outlying % Recoveries	Outlying % RPD's
TP-12 6in-2ft	antimony	38,19	
	barium	160,169	
	chromium	126,127	
	magnesium	172,172	
	potassium	347,350	
	vanadium	152,153	
TP-3	antimony	59,52	
	barium	159,196	
	magnesium	188,156	
	manganese	362,472	
	potassium	272,315	
	vanadium	126,138	
TP-17	antimony	56,55	
	calcium	432,496	
	cobalt	-54,-50	
	copper	54,58	
	lead	-6,-.07	
	magnesium	161,143	
	nickel	34,36	
	potassium	304,286	
	zinc	51,52	
SW-1	manganese	39,18	
SED-3	aluminum	283,299	
	antimony	71,69	
	barium	136,135	
	potassium	168,182	
	zinc	182,20	42

The ICP serial dilution evaluations of MW-1, TP-30 4-6 FT, TP-12 6in-2ft, TP-3, SW-1, and SED-3 show correlations within validation guidelines.

Initial and continuing calibration standard responses fall within validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Attachments: Validation Data Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 200-60682-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-60682-1	SV-1	Air	10/21/21 15:33	10/23/21 10:00	Air Canister (6-Liter) #3219
200-60682-2	SV-2	Air	10/21/21 18:55	10/23/21 10:00	Air Canister (6-Liter) #5967
200-60682-3	SV-3	Air	10/21/21 15:31	10/23/21 10:00	Air Canister (6-Liter) #3707
200-60682-4	SV-4	Air	10/21/21 15:32	10/23/21 10:00	Air Canister (6-Liter) #6020
200-60682-5	OA-1	Air	10/21/21 18:57	10/23/21 10:00	Air Canister (6-Liter) #34000294
200-60682-6	BLIND DUP	Air	10/21/21 19:00	10/23/21 10:00	Air Canister (6-Liter) #34000148

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180659-1	MW-8_8D 4-5	Solid	01/28/21 09:50	01/29/21 16:30	
480-180659-2	MW-12 6-7	Solid	01/28/21 13:00	01/29/21 16:30	
480-180659-3	MW-9 6-7	Solid	01/28/21 14:00	01/29/21 16:30	

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180749-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180749-1	MW-11 4-5	Solid	02/01/21 11:30	02/02/21 08:45	
480-180749-2	MW-10 4-5	Solid	02/01/21 09:30	02/02/21 08:45	
480-180749-3	MW-14 2-3	Solid	02/01/21 12:30	02/02/21 08:45	
480-180749-4	MW-13 4-5	Solid	02/01/21 15:00	02/02/21 08:45	

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-180934-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180934-1	MW-13	Water	02/04/21 15:00	02/05/21 15:35	
480-180934-2	BD	Water	02/04/21 09:45	02/05/21 15:35	
480-180934-3	MW-12	Water	02/04/21 13:00	02/05/21 15:35	
480-180934-4	EQUIPMENT BLANK	Water	02/04/21 15:45	02/05/21 15:35	
480-180934-5	MW-8D	Water	02/04/21 09:30	02/05/21 15:35	
480-180934-6	MW-1D	Water	02/04/21 14:00	02/05/21 15:35	
480-180934-7	MW-9	Water	02/04/21 14:00	02/05/21 15:35	
480-180934-8	MW-8	Water	02/04/21 10:30	02/05/21 15:35	
480-180934-9	MW-1	Water	02/04/21 14:30	02/05/21 15:35	
480-181055-1	MW-4D	Water	02/04/21 12:00	02/05/21 17:33	
480-181055-2	MW-2D	Water	02/04/21 11:00	02/05/21 17:33	
480-181055-3	PZ-3	Water	02/04/21 12:10	02/05/21 17:33	
480-181055-4	PZ-2	Water	02/04/21 10:30	02/05/21 17:33	
480-181055-5	PZ-4	Water	02/04/21 12:30	02/05/21 17:33	
480-181055-6	PZ-5	Water	02/04/21 16:00	02/05/21 17:33	

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182831-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182831-1	SB-17 8-9FT	Solid	04/05/21 09:30	04/05/21 13:00	
480-182831-2	SB-18 4-5FT	Solid	04/05/21 11:45	04/05/21 13:00	
480-182831-3	SB-19 6-7FT	Solid	04/05/21 10:00	04/05/21 13:00	
480-182831-4	SB-20 7-8FT	Solid	04/05/21 11:30	04/05/21 13:00	
480-182831-5	SB-21 4-6FT	Solid	04/05/21 10:30	04/05/21 13:00	
480-182831-6	SB-22 3-4FT	Solid	04/05/21 11:00	04/05/21 13:00	
480-182831-7	SB-23 9-11FT	Solid	04/05/21 12:00	04/05/21 13:00	

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 3077 Union Rd

Job ID: 480-182896-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182896-1	PZ-6	Water	04/06/21 13:00	04/06/21 14:00	
480-182896-2	PZ-7	Water	04/06/21 13:15	04/06/21 14:00	
480-182896-3	PZ-8	Water	04/06/21 13:30	04/06/21 14:00	

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189504-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189504-1	TP-6 3-4 FT	Solid	09/13/21 12:00	09/14/21 08:00
480-189504-2	TP-22 0-2 FT	Solid	09/13/21 11:30	09/14/21 08:00
480-189504-3	TP-23 1-3 FT	Solid	09/13/21 10:00	09/14/21 08:00
480-189504-4	TP-30 4-6 FT	Solid	09/13/21 11:00	09/14/21 08:00
480-189504-5	TP-34 0-2 FT	Solid	09/13/21 13:00	09/14/21 08:00

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189621-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189621-1	TP-12 6in-2ft	Solid	09/14/21 09:30	09/14/21 16:50
480-189621-2	TP-19 1-3ft	Solid	09/14/21 11:00	09/14/21 16:50
480-189621-3	TP-28 4-5ft	Solid	09/14/21 10:00	09/14/21 16:50
480-189621-4	TP-32 0-6in	Solid	09/14/21 12:30	09/14/21 16:50
480-189621-5	BD-1	Solid	09/14/21 11:05	09/14/21 16:50
480-189621-6	BD-2	Solid	09/14/21 12:35	09/14/21 16:50
480-189621-7	SS-5	Solid	09/14/21 14:40	09/14/21 16:50
480-189621-8	SS-6	Solid	09/14/21 14:30	09/14/21 16:50
480-189621-9	SS-7	Solid	09/14/21 13:00	09/14/21 16:50
480-189621-10	SS-8	Solid	09/14/21 13:15	09/14/21 16:50
480-189621-11	SS-9	Solid	09/14/21 14:00	09/14/21 16:50
480-189621-12	SS-10	Solid	09/14/21 14:35	09/14/21 16:50
480-189621-13	SS-11	Solid	09/14/21 13:20	09/14/21 16:50
480-189621-14	SS-12	Solid	09/14/21 14:50	09/14/21 16:50
480-189621-15	SS-13	Solid	09/14/21 14:05	09/14/21 16:50
480-189621-16	SS-14	Solid	09/14/21 13:10	09/14/21 16:50
480-189621-17	SS-15	Solid	09/14/21 13:45	09/14/21 16:50
480-189621-18	SS-16	Solid	09/14/21 14:15	09/14/21 16:50
480-189621-19	SS-17	Solid	09/14/21 13:05	09/14/21 16:50
480-189621-20	SS-18	Solid	09/14/21 14:45	09/14/21 16:50
480-189621-21	SS-19	Solid	09/14/21 16:10	09/14/21 16:50
480-189621-22	SS-20	Solid	09/14/21 13:25	09/14/21 16:50

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189652-1	TP-3	Solid	09/15/21 09:30	09/15/21 15:30
480-189652-2	TP-17	Solid	09/15/21 10:00	09/15/21 15:30
480-189652-3	TP-8	Solid	09/15/21 11:00	09/15/21 15:30
480-189652-4	TP-1	Solid	09/15/21 12:30	09/15/21 15:30

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Job ID: 480-189753-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189753-1	SW-1	Water	09/17/21 11:00	09/17/21 13:27
480-189753-2	SW-2	Water	09/17/21 11:15	09/17/21 13:27
480-189753-3	BD SW	Water	09/17/21 11:05	09/17/21 13:27
480-189753-4	SED-1	Solid	09/17/21 10:30	09/17/21 13:27
480-189753-5	SED-2	Solid	09/17/21 10:15	09/17/21 13:27
480-189753-6	SED-3	Solid	09/17/21 10:00	09/17/21 13:27
480-189753-7	BD SED	Solid	09/17/21 10:20	09/17/21 13:27

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-198998-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198998-1	SS-1	Solid	06/14/22 11:30	06/14/22 12:45
480-198998-2	SS-2	Solid	06/14/22 11:45	06/14/22 12:45
480-198998-3	SS-3	Solid	06/14/22 12:00	06/14/22 12:45
480-198998-4	SS-4	Solid	06/14/22 12:15	06/14/22 12:45

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

September 24, 2024

Nicholas Suraci
Roux Environmental Engineering and Geology, D. P. C.
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: 3077 Union Road
Validation of the Analytical Data Packages; Data Usability Summary Report (DUSR)
Eurofins Edison SDG Nos. 480-215704-1 and 480-216448-1

Dear Mr. Suraci:

Review has been completed for the data packages generated by Eurofins that pertain to aqueous samples collected 12/13/23 and 01/12/24 at the 3077 Union Road site. Nine aqueous samples and a soil sample were processed for TCL volatile analytes by USEPA SW846 method 8260D.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method Blanks
* Laboratory Control Sample (LCS) Recoveries
* Instrumental Tunes
* Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for the samples are usable as reported.

Data completeness, representativeness, reproducibility, sensitivity, and comparability are acceptable. Matrix spikes and field duplicates were not processed, and the effect of the matrix on accuracy and precision has not been determined.

Validation qualifier definitions and client sample identifications are attached to this text. Also included in this report is the client EQuIS EDD with recommended qualifiers applied in red.

Chain-of-Custody

The collection and relinquish date entries on the custody form for samples collect in January show the incorrect year. This was not noted by the laboratory.

Volatile Analyses by EPA 8260D

Surrogate and internal standard recoveries are compliant. LCS recoveries are within validation guidelines. Blanks show no contamination.

Calibration standards show responses within validation guidelines. Instrument tunes meet fragmentation requirements.

Some of the samples were processed at initial dilution due to target analyte concentrations and/or foaming of the undiluted matrix. Reporting limits for those samples are proportionally elevated.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Attachments: Client and Laboratory Identifications
Laboratory EDDs

Sample Identification Summary

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-215704-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-215704-1	PZ-9 4-5FT	Solid	12/13/23 09:00	12/14/23 11:00

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-216448-1
Project/Site: 3077 Union Rd Site - Orchard Park, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-216448-1	MW-1	Water	01/12/24 10:15	01/16/24 10:45
480-216448-2	PZ-6	Water	01/12/24 10:45	01/16/24 10:45
480-216448-3	PZ-7	Water	01/12/24 11:15	01/16/24 10:45
480-216448-4	PZ-4	Water	01/12/24 12:00	01/16/24 10:45
480-216448-5	MW-8	Water	01/12/24 14:00	01/16/24 10:45
480-216448-6	PZ-5	Water	01/12/24 12:30	01/16/24 10:45
480-216448-7	PZ-8	Water	01/12/24 13:00	01/16/24 10:45
480-216448-8	PZ-2	Water	01/12/24 11:30	01/16/24 10:45
480-216448-9	PZ-9	Water	01/12/24 13:30	01/16/24 10:45